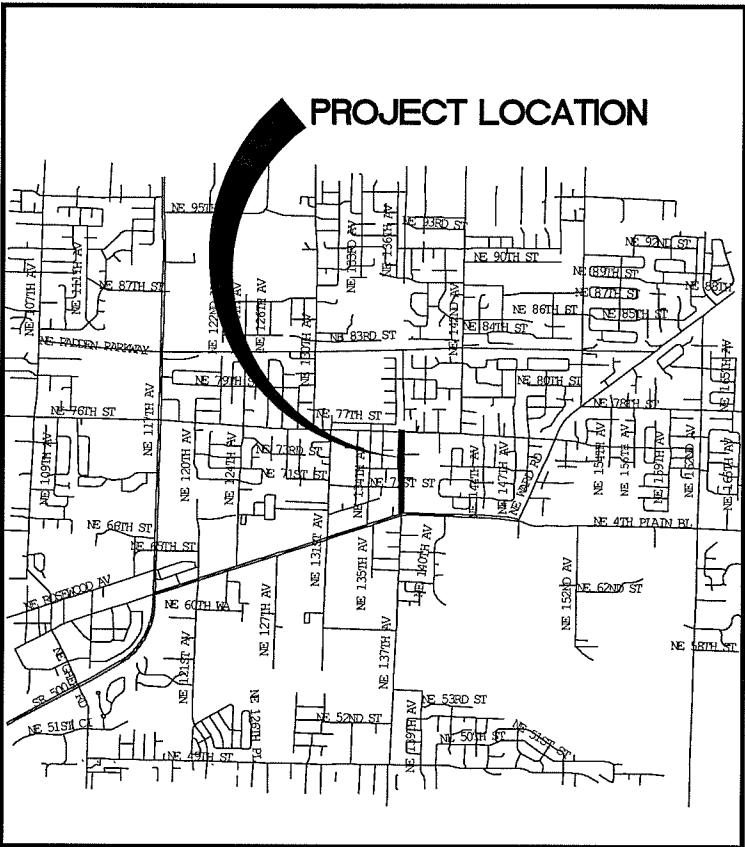
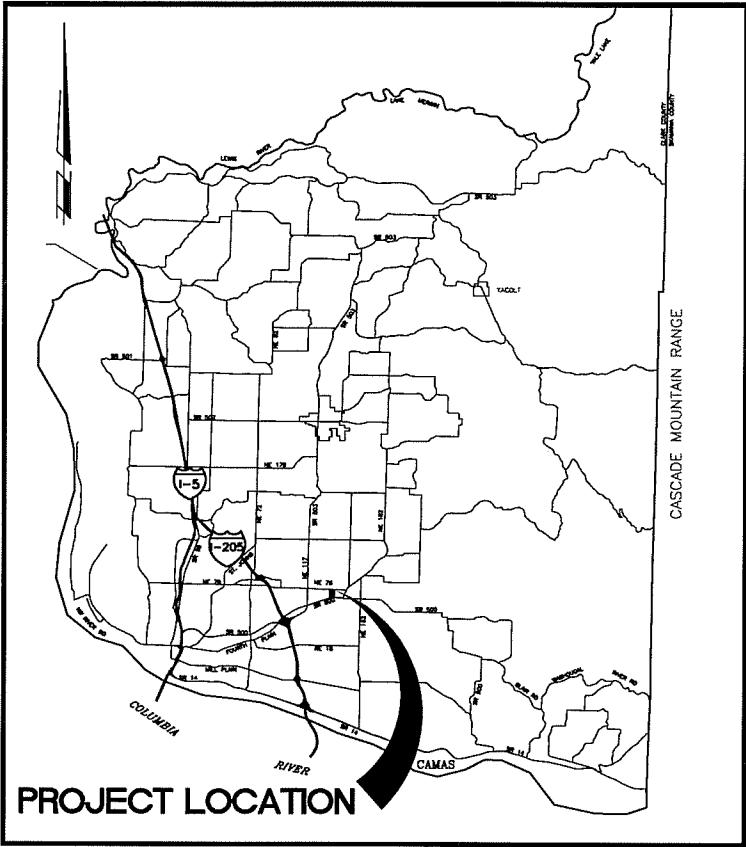


CAPITAL IMPROVEMENTS PROGRAM
COUNTY ROAD PROJECT # 321122

NE 137TH AVENUE
FROM NE FOURTH PLAIN BLVD TO NE 76TH STREET

PLANS FOR THE CONSTRUCTION OF
ROADWAY, AND STORM DRAINAGE

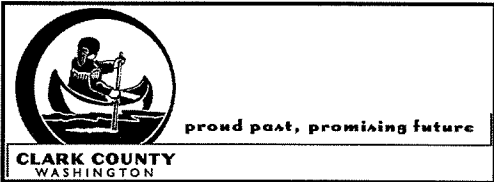


INDEX OF SHEETS

- | | | |
|----|-----|--|
| 1 | CV1 | COVER SHEET |
| 2 | SQ1 | SUMMARY OF QUANTITIES AND LEGEND |
| 3 | TS1 | TYPICAL SECTIONS |
| 4 | TS2 | TYPICAL SECTIONS |
| 5 | HV1 | HORIZONTAL & VERTICAL CONTROL |
| 6 | EC1 | EROSION CONTROL PLAN |
| 7 | EC2 | EROSION CONTROL DETAILS |
| 8 | DO1 | ROADWAY DETAILS |
| 9 | DO2 | ROADWAY DETAILS |
| 10 | DO3 | ROADWAY DETAILS |
| 11 | DD1 | DRAINAGE DETAILS |
| 12 | DD2 | DRAINAGE DETAILS |
| 13 | PP1 | PLAN & PROFILE (B.O.P. TO 14+00) |
| 14 | PP2 | PLAN & PROFILE (STA 14+00 TO 19+00) |
| 15 | PP3 | PLAN & PROFILE (STA 19+00 TO 24+00) |
| 16 | PP4 | PLAN & PROFILE (STA 24+00 TO E.O.P.) |
| 17 | PP5 | PLAN & PROFILE (NE 71ST STREET/NE 72ND STREET) |
| 18 | DP1 | DRAINAGE PLAN (B.O.P. TO 14+00) |
| 19 | DP2 | DRAINAGE PLAN (STA 14+00 TO 19+00) |
| 20 | DP3 | DRAINAGE PLAN (STA 19+00 TO 24+00) |
| 21 | DP4 | DRAINAGE PLAN (STA 24+00 TO E.O.P.) |
| 22 | IO1 | INTERSECTION PLAN |
| 23 | SO1 | TRAFFIC SIGNAL PLAN (NE 137TH AVE AT NE 76TH STREET) |
| 24 | SS1 | SIGNING & STRIPING PLAN |
| 25 | W01 | CITY OF VANCOUVER WATER STANDARD DETAILS |
| 26 | W02 | CITY OF VANCOUVER WATER STANDARD DETAILS |
| 27 | LS1 | LANDSCAPE PLAN |
| 28 | LS2 | LANDSCAPE DETAILS |

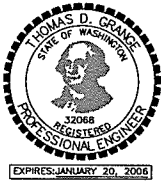
COMMISSIONERS:

BETTY SUE MORRIS, Chair
JUDIE STANTON, Commissioner
CRAIG PRIDEMORE, Commissioner



DEPARTMENT OF
PUBLIC WORKS

DESIGN AND ENGINEERING DIVISION- DESIGN SECTION



PRELIMINARY
90% REVIEW SET

Quality Assurance	Project Manager	PW Director/ County Engineer
Bruce Klug, P.E.	Robin Krause, P.E.	Peter Capell, P.E.

Recommended for Approval	
Grading _____	Erosion _____
Storm Water Plan _____	
Development Review Manager _____	Date _____

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\DWGS\137THSQ01.dwg, 9/29/2004 10:52:10 AM, kerlinr

SUMMARY OF QUANTITIES

ITEM NUM	QUANTITY	UNIT	DESCRIPTION
1	1	L.S.	MOBILIZATION
2	1	CALC.	MINOR CHANGE
3	800	HOURL	TRAFFIC CONTROL LABOR
4	200	HOURL	TRAFFIC CONTROL SUPERVISOR
5	1	L.S.	TEMPORARY TRAFFIC CONTROL DEVICES
6	300	S.F.	CONSTRUCTION SIGNS CLASS "A"
7	1	L.S.	CLEARING AND GRUBBING
8	1	EST.	ROADSIDE CLEANUP
9	1	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTION
10	1	EACH	REMOVAL OF BUILDING
11	3133	C.Y.	ROADWAY EXCAVATION (INCL. HAUL)
12	460	L.F.	SAWCUT EXISTING (ASPHALT) PAVEMENT
13	500	MGAL	WATER
14	3093	TON	CRUSHED SURFACING BASE COURSE
15	1502	TON	ASPHALT CONCRETE PAVEMENT CL. A
16	1502	TON	ASPHALT CONCRETE PAVEMENT CL. E
17	1206	S.Y.	PLANING BITUMINOUS PAVEMENT
18	301	S.Y.	ASPHALT CONCRETE APPROACH CL. A
19	306	S.Y.	CEMENT CONCRETE APPROACH, 3-DAY
20	822	L.F.	TRENCH SAFETY SYSTEM
21	56	L.F.	DUCTILE IRON PIPE, 10 IN. DIAM.
22	234	L.F.	STORM SEWER PIPE, 10 IN. DIAM.
23	532	L.F.	STORM SEWER PIPE, 12 IN. DIAM.
24	6	EACH	MANHOLE 48 IN. DIAM. TYPE 3
25	6	EACH	CATCH BASIN TYPE 1 / CATCH BASIN 1L
26	5	EACH	CONCRETE CURB INLET
27	4	EACH	ABANDON EXISTING MANHOLE OR DRYWELL
28	6	EACH	ADJUST MANHOLE/ CATCH BASIN/ INLET/ DRYWELL METHOD 1
29	2	EACH	CONNECTION TO DRAINAGE STRUCTURE
30	11	EACH	ADJUST WATER/GAS VALVE RIM, COVER & FRAME
31	1611	L.F.	SILT FENCE
32	2	EACH	STABILIZED CONSTRUCTION ENTRANCE
33	2	EACH	TIRE WASH
34	15	EACH	INLET PROTECTION
35	0.25	ACRE	SEEDING AND MULCHING
36	68	C.Y.	BARK MULCH
37	272	C.Y.	COMPOST AMENDED TOPSOIL
38	23	EACH	PSIPE - 1.5 IN. CALIPER TREE (Crimson Sentry, Norway Maple)
39	15	EACH	PSIPE - SHRUB, EVERGREEN, 2 or 3 GAL (David Viburnum)
40	74	EACH	PSIPE - SHRUB, EVERGREEN, 2 or 3 GAL (Crimson Pygmy Barberry)
41	226	EACH	PSIPE - GROUND COVER, 1 GAL (Kinnikinnick)
42	2560	L.F.	CEMENT CONC. BARRIER CURB AND GUTTER
43	144	L.F.	CHAIN LINK FENCE - TYPE 6
44	1	EACH	SINGLE 4 FT. WIDE CHAIN LINK GATE
45	60	L.F.	FENCE RELOCATION (INCL. GATE)
46	181	L.F.	MOWING STRIP
47	1	EACH	4 FT. WIDE CEDAR GATE
48	207	L.F.	6 FT. HIGH CEDAR FENCE
49	240	L.F.	PROTECTIVE CHAIN LINK FENCING
50	1707	S.Y.	CEMENT CONCRETE SIDEWALK
51	8	EACH	DETECTABLE WARNING PATTERN
52	4	EACH	MAILBOX SUPPORT, TYPE 1
53	2	EACH	MAILBOX SUPPORT, TYPE 2
54	2	EACH	RELOCATE FLASHING SCHOOL ZONE SIGN
55	1	L.S.	TRAFFIC SIGNAL SYSTEM LOOP REPLACEMENT

CITY OF VANCOUVER WATER IMPROVEMENTS

ITEM NUM	QUANTITY	UNIT	DESCRIPTION
56	228	L.F.	TRENCH SAFETY SYSTEM (Water)
57	28	L.F.	CL 52 DUCTILE IRON PIPE FOR WATER MAIN, 6 IN. DIAM
58	200	L.F.	CL 52 DUCTILE IRON PIPE FOR WATER MAIN, 8 IN. DIAM
59	3	EACH	BLOWOFF ASSEMBLY
60	1	EACH	CUT AND CAP EXISTING 6 IN. WATERLINE (6" MJ Cap)
61	4	EACH	12 IN. X 12 IN. TAPPING TEE
62	4	EACH	12 IN. X 12 IN. TAPPING VALVE
63	1	EACH	8IN. X 6 IN. REDUCER
64	2	EACH	HYDRANT ASSEMBLY
65	4	EACH	RELOCATE WATER METER BOX & SERVICE

LEGEND

---	ROW LINE
---	NEW EDGE OF PAVEMENT
---	NEW CURB LINE
---	NEW CENTER LINE
- X - X - X - X - X - X - X - X - X -	NEW FENCE LINE
---	NEW STORM DRAIN OR CULVERT
... F ... F ... F ... F ... F ... F ... F ... F ...	NEW FILL LIMITS
- C - C - C - C - C - C - C - C - C - C -	NEW CUT LIMITS
---	SAWCUT LINE
---	PERMANENT SLOPE EASEMENT
- SF - SF - SF - SF - SF - SF - SF - SF - SF - SF -	NEW SILT FENCE
---	EXISTING EDGE OF PAVEMENT
---	EXISTING CURB LINE
---	EXISTING CENTER LINE
- X - X - X - X - X - X - X - X - X -	EXISTING FENCE LINE
- T - T - T - T - T - T - T - T - T -	EXISTING TELEPHONE LINE
- W - W - W - W - W - W - W - W - W -	EXISTING WATER LINE
- E - E - E - E - E - E - E - E - E -	EXISTING UNDERGROUND ELECTRIC
- S - S - S - S - S - S - S - S - S -	EXISTING SANITARY SEWER LINE
- STM - STM - STM - STM - STM - STM - STM - STM - STM -	EXISTING STORM DRAINAGE
- G - G - G - G - G - G - G - G - G -	EXISTING GAS LINE
=====	EXISTING CULVERT
-----	EXISTING DITCH CENTER LINE
- □ - □ - □ - □ - □ - □ - □ - □ - □ -	EXISTING GUARDRAIL

SYMBOLS

▣	NEW CATCH BASIN (CB)	▣	EXISTING CURB INLET (CI)
●	NEW MANHOLE (MH)	▣	EXISTING CATCH BASIN (CB)
▣	NEW CURB INLET (CI)	⊙	EXISTING STORM MH
▣	NEW COMBINATION CURB INLET (CCI)	⊙	EXISTING MISC MH
▣	NEW MAIL BOX	☼	EXISTING SHRUB
▣	NEW HANDICAP RAMP	☼	EXISTING CONIFEROUS TREE
⊙	CURVE TABLE	☼	EXISTING DECIDUOUS TREE
⊙	EXISTING TRANSFORMER	☼	EXISTING SIGN
⊙	EXISTING ELEC TOWER	☼	EXISTING DECIDUOUS TREE
⊙	EXISTING SANITARY SEWER MH	☼	EXISTING J BOX
⊙	EXISTING FIRE HYDRANT	☼	EXISTING TELEPHONE MANHOLE
⊙	EXISTING CLEAN OUT	☼	EXISTING TELEPHONE POLE
⊙	EXISTING GAS VALVE	☼	EXISTING LIGHT
⊙	EXISTING WATER METER	☼	EXISTING GUY ANCHOR
⊙	EXISTING WATER VALVE	☼	EXISTING POWER POLE
⊙	EXISTING SIGNAL POLE	☼	EXISTING MAIL BOX
⊙	EXISTING TELEPHONE VAULT	☼	EXISTING TELEPHONE PEDESTAL
⊙	EXISTING TELEVISION BOX	☼	EXISTING SPRINKLER HEAD
⊙	EXISTING WELL	☼	TRAVERSE POINT
⊙	EXISTING BRUSH LINE	⊙	TEST HOLE
⊙	EXISTING HEDGE		

PRELIMINARY

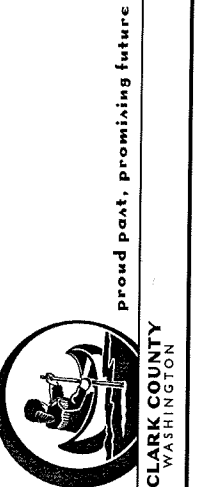
DESIGNED JRK
DRAWN RK
CRP 321122
HOR. NA
VERT. NA
DATE 09/28/04
DWG. SQ1
SHEET 2 OF 28

CALL 48 HOURS
BEFORE YOU DIG
1-800-
553-4344
"It's the Low"
NORTHWEST
UTILITIES
NOTIFICATION CENTER

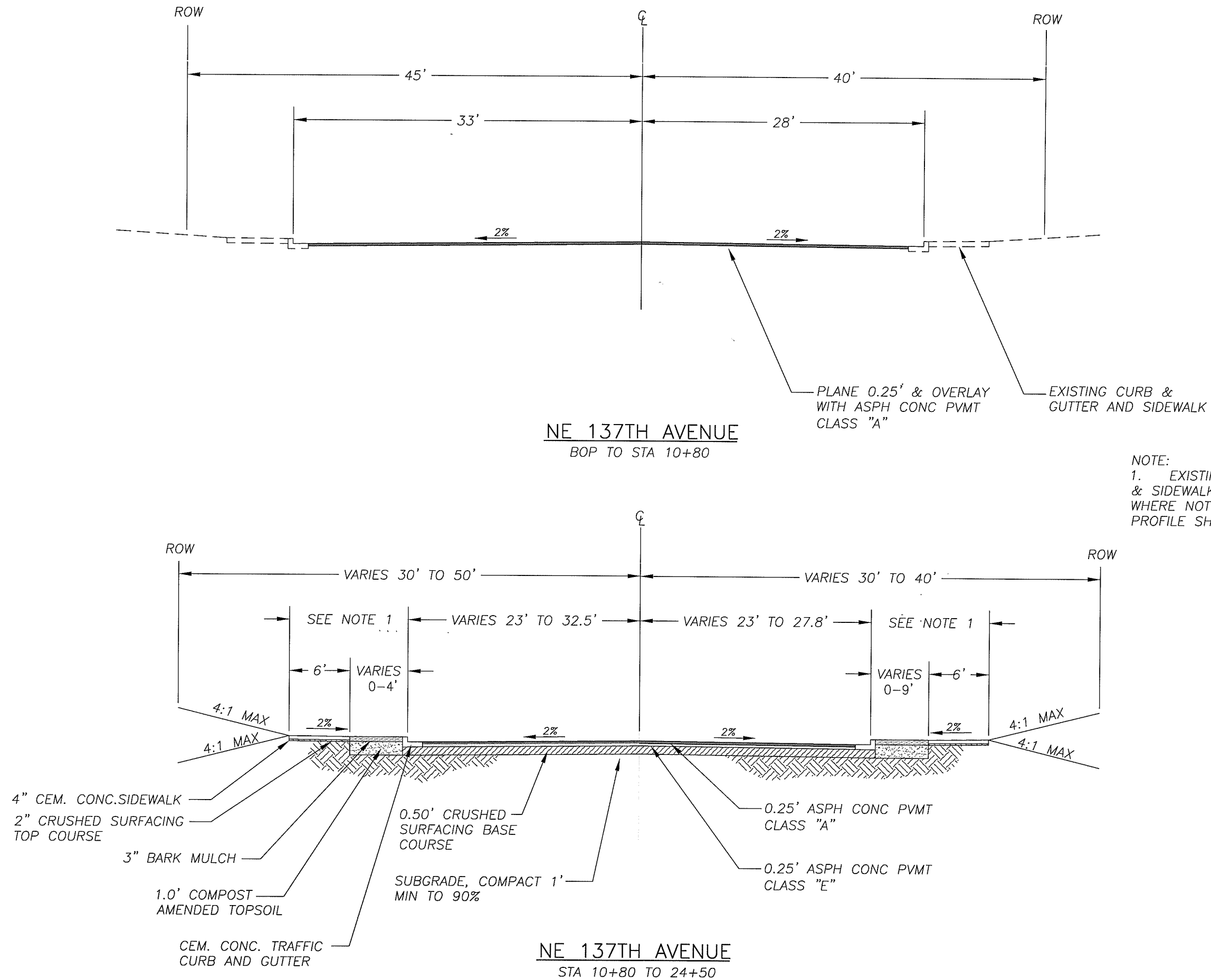


DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
SUMMARY OF QUANTITIES AND LEGEND



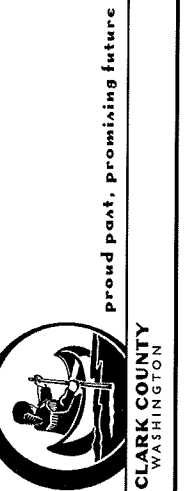
N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Drawings\137TH\TSS1-2.dwg, 9/28/2004 11:37:56 AM, kcr1mr



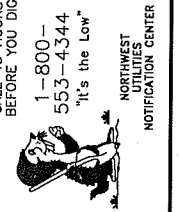
PRELIMINARY



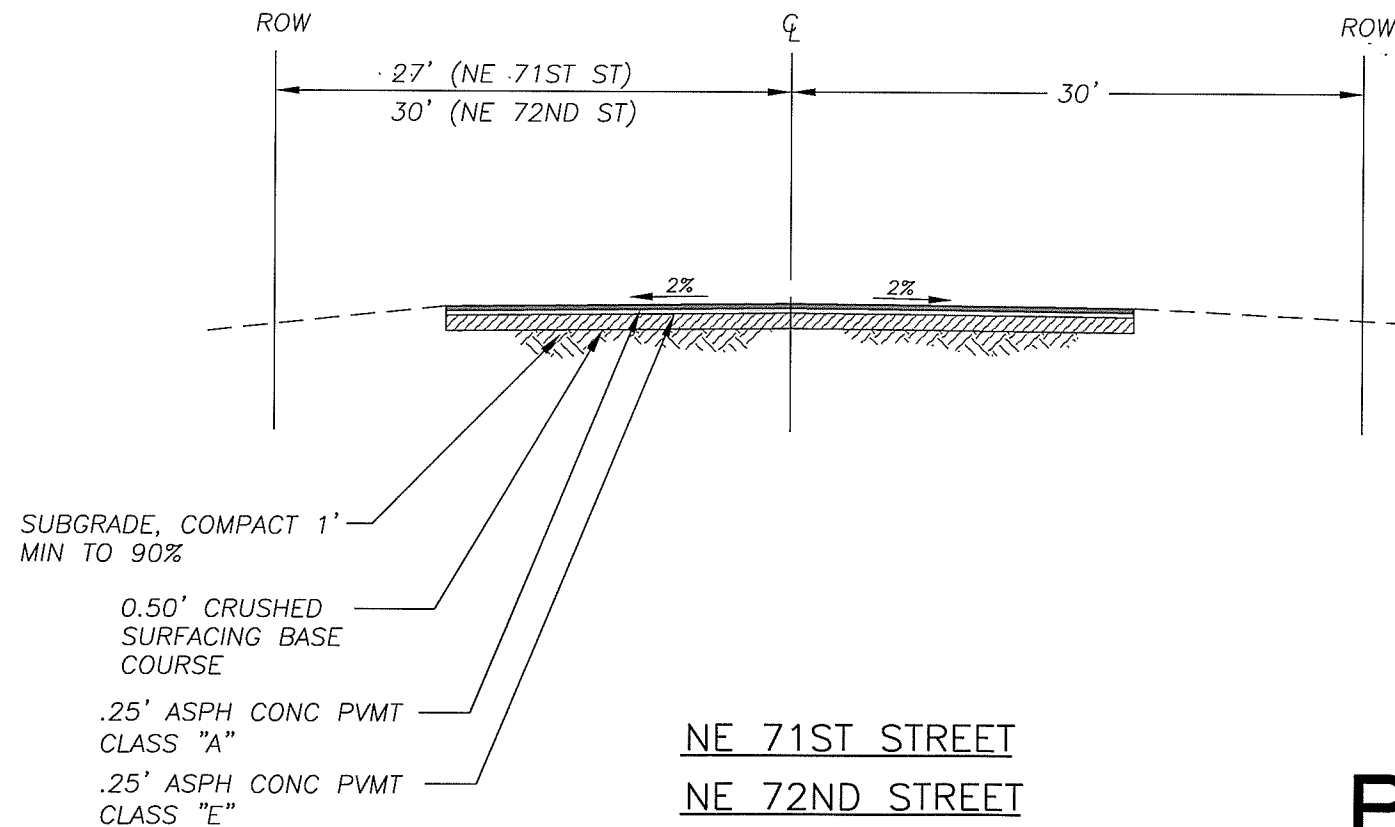
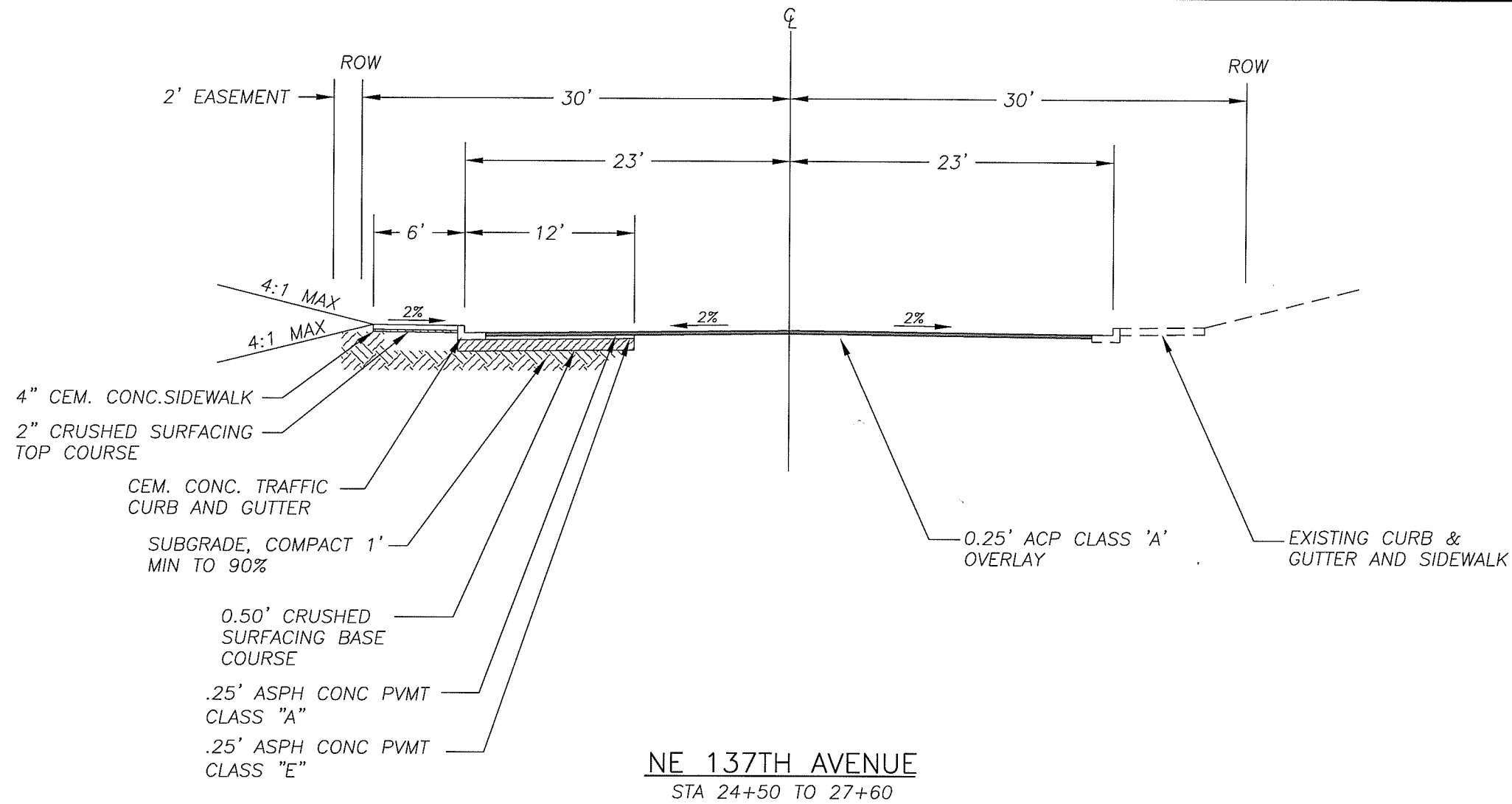
DESIGN & ENGINEERING DIVISION
DESIGN SECTION
NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
TYPICAL SECTIONS



DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	NA
VERT.	NA
DATE	09/28/04
DWG.	TS1
SHEET	3 OF 28

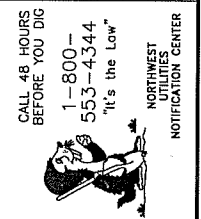


N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\DWGS\137TH\TS1-2.dwg, 9/28/2004 11:38:12 AM, kerlinr

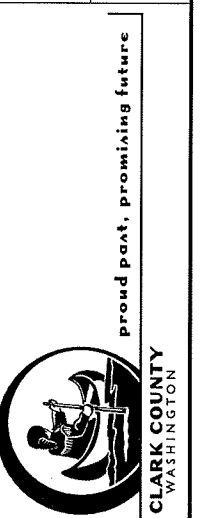


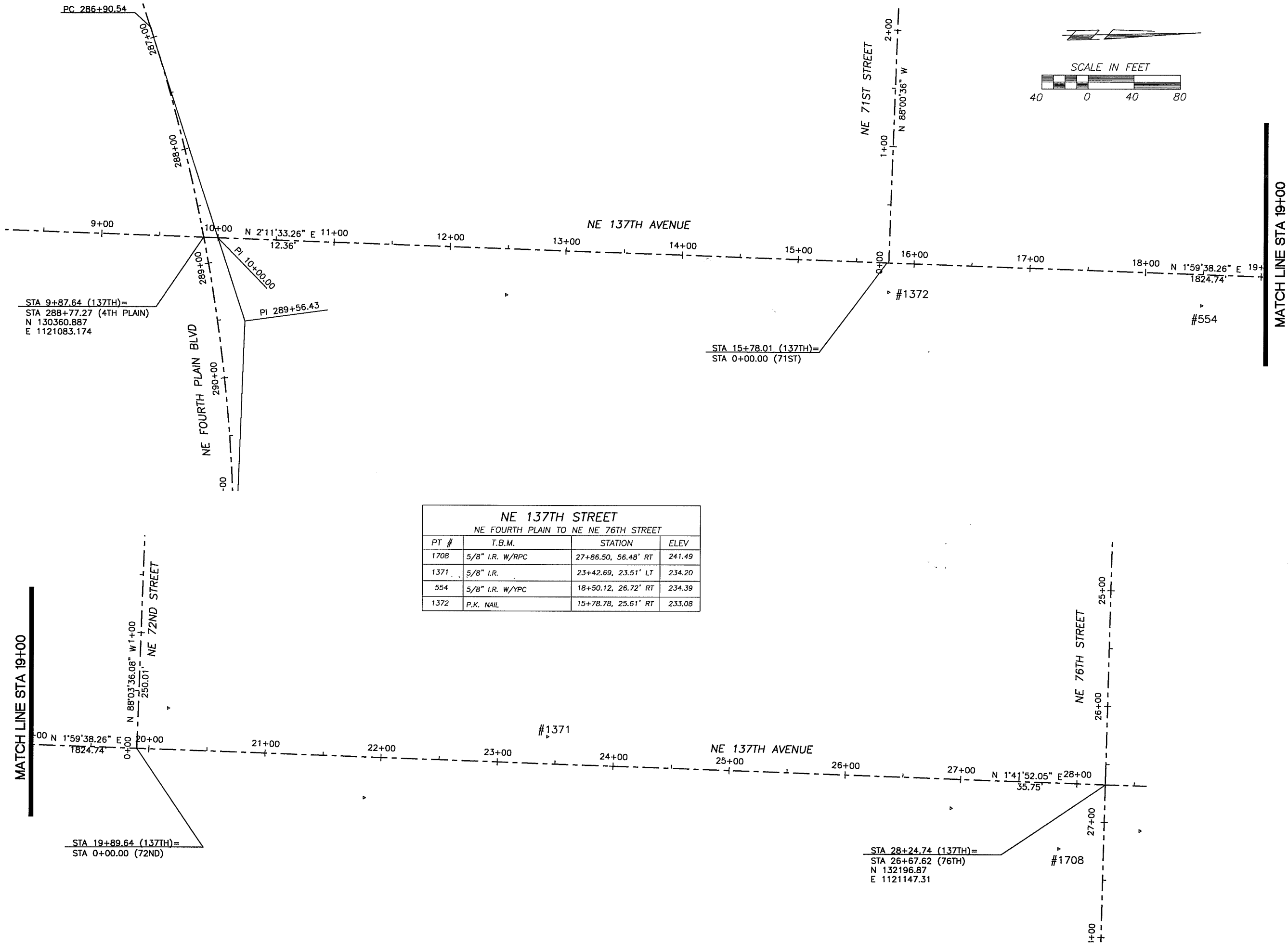
PRELIMINARY

DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	NA
VERT.	NA
DATE	09/28/04
DWG.	TS2
SHEET	4 OF 28



DESIGN & ENGINEERING DIVISION
DESIGN SECTION
NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
TYPICAL SECTIONS



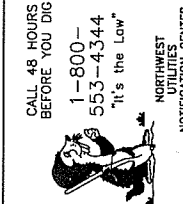


NE 137TH STREET			
NE FOURTH PLAIN TO NE NE 76TH STREET			
PT #	T.B.M.	STATION	ELEV
1708	5/8" I.R. W/RPC	27+86.50, 56.48' RT	241.49
1371	5/8" I.R.	23+42.69, 23.51' LT	234.20
554	5/8" I.R. W/YPC	18+50.12, 26.72' RT	234.39
1372	P.K. NAIL	15+78.78, 25.61' RT	233.08



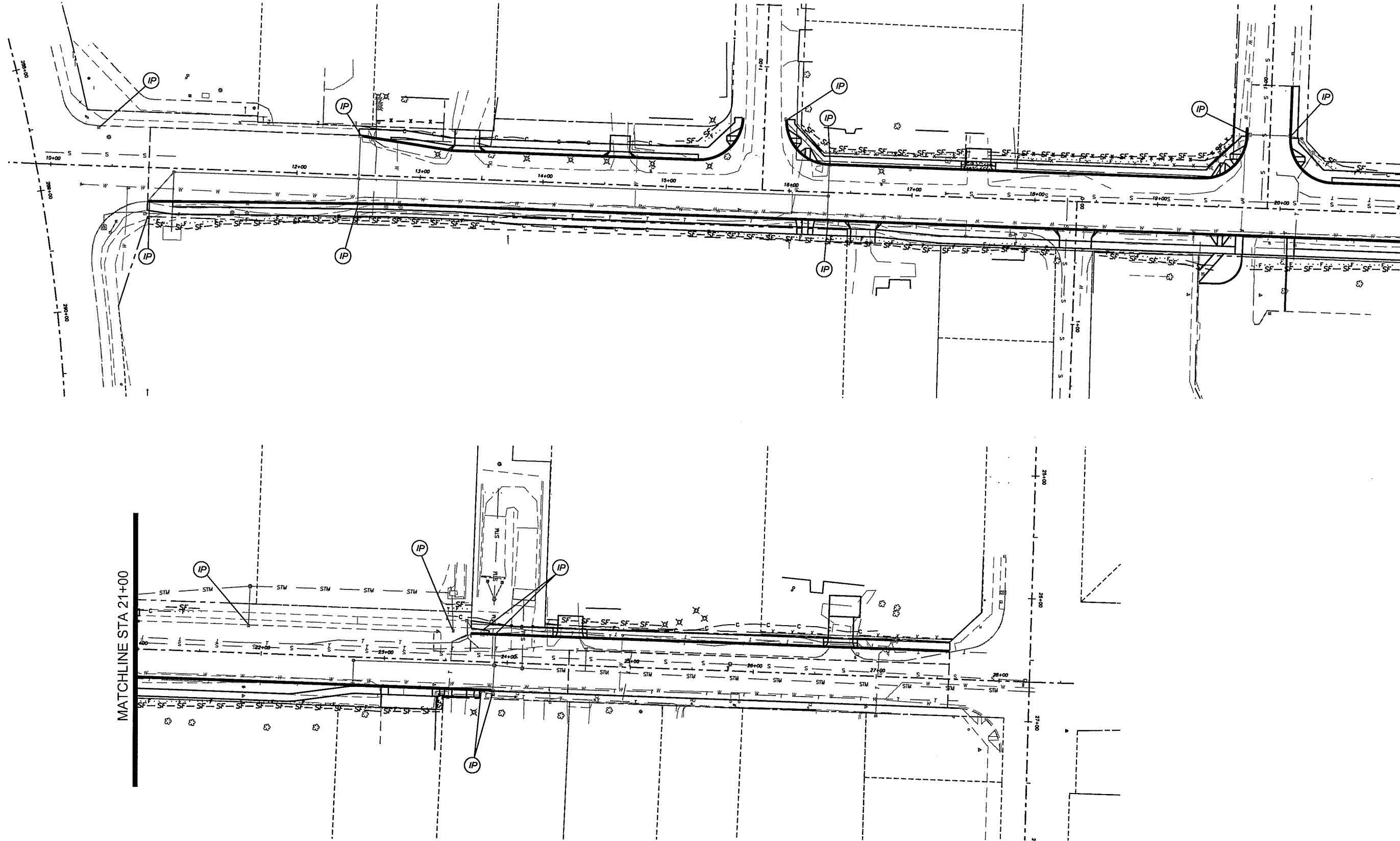
proud past, promising future

DESIGN & ENGINEERING DIVISION
DESIGN SECTION
NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
HORIZONTAL & VERTICAL CONTROL



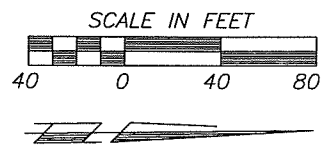
DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	1"=40'
VERT.	NA
DATE	09/28/04
DWG.	HV1
SHEET	5 OF 28

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Drawgs\137TH\EC1.dwg, 9/28/2004 8:51:22 AM, kerlinr



LEGEND
-SF- SILT FENCE
IP INLET PROTECTION

PRELIMINARY



MATCHLINE STA 21+00

MATCHLINE STA 21+00

CLARK COUNTY
WASHINGTON

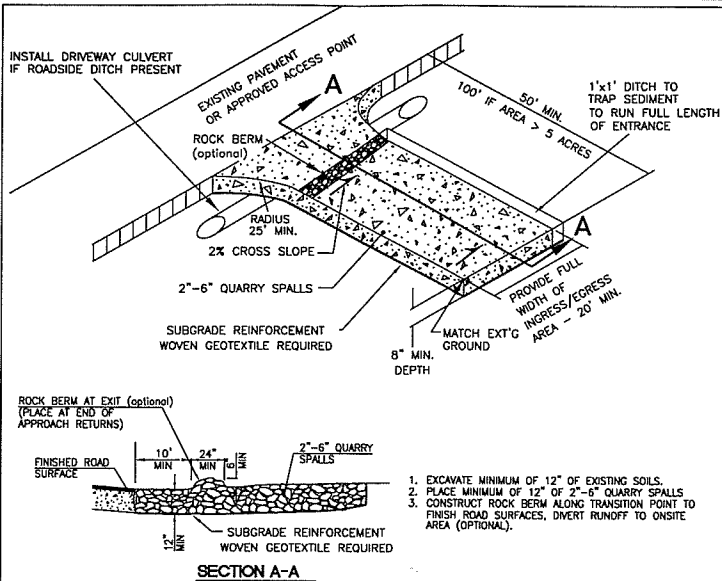
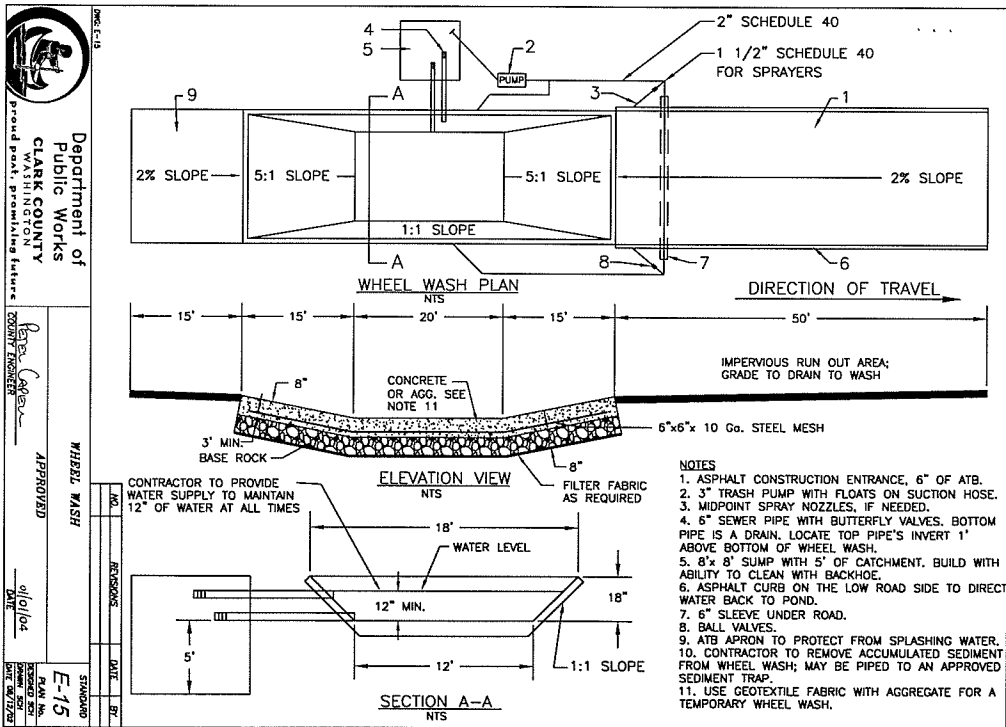
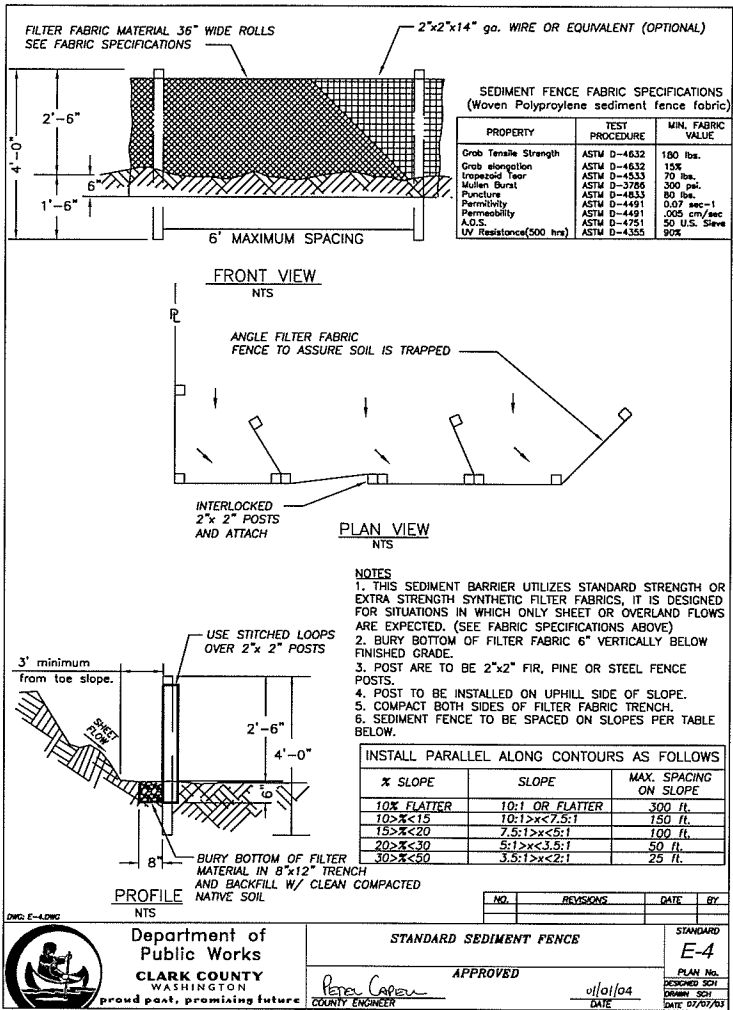
proud part, promising future

DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
EROSION CONTROL PLAN

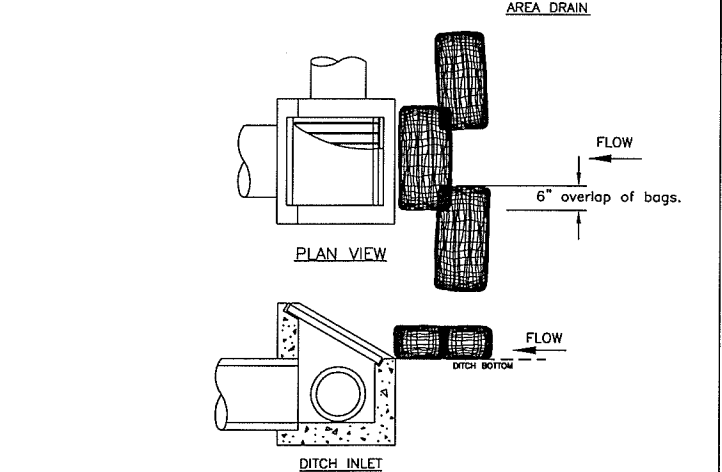
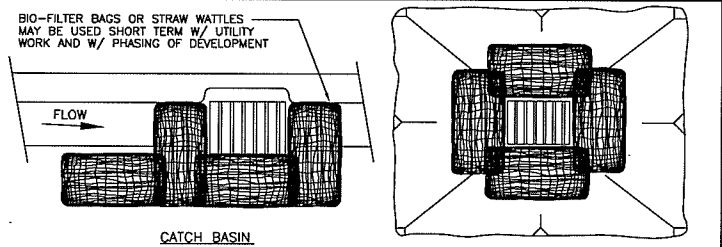
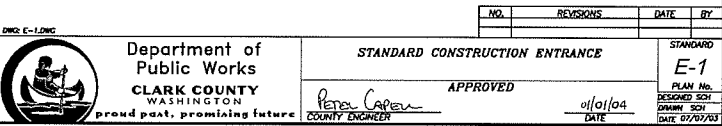
DESIGNED JRK
DRAWN RK
CRP 321122
HOR. 1"=40'
VERT. NA
DATE 09/28/04
DWG. EC1
SHEET 6 OF 28

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Low"
NORTHWEST
NOTIFICATION CENTER



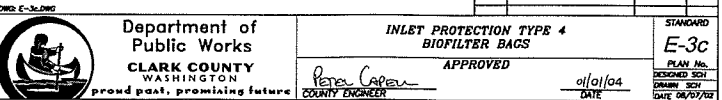
NOTES:

1. FOR DEVELOPMENT PROJECTS REVIEWED BY ENGINEERING SERVICES, NOT FOR USE WITH SINGLE FAMILY OR DUPLEX RESIDENTIAL BUILDING PERMITS. SEE BUILDING DEPT. FOR GRAVEL CONSTRUCTION ENTRANCE PLAN.
2. INSTALL WOVEN GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.
3. VEHICLE WASHDOWN AREA, IF REQUIRED, IS TO BE INSTALLED AND USED TO REMOVE SEDIMENT FROM VEHICLES THAT ARE ABOUT TO ENTER AN ESTABLISHED ROAD.
4. WASHDOWN AREA TO BE MADE UP OF CLEAN 2"-6" QUARRY SPALLS, 1" DEEP (MIN) OVER WOVEN GEOTEXTILE FABRIC. WASHDOWN AREA TO BE FULL WIDTH OF ENTRANCE AND 50' (MIN.), AND 100' IF EXPOSED SOIL IS OVER 5 ACRES.
5. AT TIME OF PRECONSTRUCTION MEETING, THE COUNTY INSPECTOR MAY REQUIRE THE ENTRANCE TO BE PAVED TO THE EDGE OF THE RIGHT-OF-WAY PRIOR TO THE INSTALLATION OF A WASHDOWN ENTRANCE TO AVOID DAMAGE TO THE EXISTING ROADWAY.
6. THE RESPONSIBLE EROSION CONTROL INDIVIDUAL IS TO ENSURE THAT ALL VEHICLES USE THIS ENTRANCE AND ARE TO BE INSPECTED AND CLEANED OF SOILS BEFORE LEAVING PROJECT, AND THAT THE ENTRANCE IS TO BE KEPT CLEAN AT ALL TIMES.



NOTES:

1. ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPE.
2. BIO-FILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1"x2" WOODEN STAKES OR APPROVED EQUAL PER BAG.
3. STRAW WATTLES MUST BE STABILIZED BY ATTACHING WIRE CLIPS TO THE CATCH BASIN PER MANUFACTURES SPECIFICATIONS.
4. INLET PROTECTION MUST BE REGULARLY INSPECTED BY THE EROSION CONTROL INDIVIDUAL TO INSURE PROPER PLACEMENT/FUNCTION AND MAINTENANCE.
5. SEE INLET PROTECTION NOTES STD. PLAN E-3



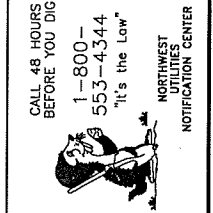
STANDARD NOTES FOR EROSION CONTROL PLAN

1. The Contractor shall install and maintain BMP's as shown and perform all actions necessary to prevent erosion, and control sediment from leaving the construction site. Site Contractor shall comply with Clark County Code Chapter 13 .29, Article IV.
2. All erosion control measures shall be in-place and in working condition prior to disturbing and exposing any soil surfaces (i.e. silt fence, construction entrance, sedimentation barriers, sedimentation traps).
3. All erosion prevention and control BMP's shall be maintained and repaired as needed to insure continued performance of their intended function. Needed repairs shall be made as soon as practicable. They are to remain in place and operational during all phases of construction. Construction activities shall not continue or resume until repairs to erosion control facilities are made and the facilities are functional. Any sediment leaving the site or discharging to a sensitive area shall be stopped and controlled immediately. Contaminated areas shall be cleaned and restored.
4. Clearing limits and work area limits shall be delineated and marked. Do not disturb more area than needed for construction requirements.
5. All sensitive or critical areas (wetlands, steep slopes, natural waterways), and buffers shall all be clearly delineated and clearly marked, and protected from sediment deposition.
6. Sediment laden runoff shall be prevented from entering all existing storm water catch basins and inlets affected by construction.
7. No exposed, bare soils shall remain unstabilized for more than two days during the period October 1 thru April 30 or for more than seven days during the period of May 1 through September 30. All disturbed soil surfaces shall be stabilized by a suitable application of "Best Management Practices".
8. Where feasible, no more than 500 feet of trench shall be open at one time. Excavated material shall be placed on the up-hill side of trenches provided it does not conflict with safety requirements.
9. Dewatering devices shall discharge into a sediment trap or sediment pond. No discharge shall be made to a paved street or stormwater collection system without first removing sediment.
10. Cut and fill slopes shall be constructed in a manner that will minimize erosion. Erosion shall be controlled and prevented by such measures as roughening the surface, installation of interceptor ditches, terracing, covering with matting, mulch or plastic sheeting. Runoff shall be prevented from entering a slope and from undercutting the base of slopes.
11. Any soil or debris transported onto roadways and sidewalks shall be removed. Deposits shall be completely removed by shoveling and/or sweeping. Washing shall not be utilized unless specifically approved in writing by the County.
12. All permanent infiltration systems shall be isolated and protected from sediment laden runoff entering to avoid risk of reducing the ability of the systems to infiltrate. Isolation and protection shall not be removed until the drainage area tributary to the system is completely stabilized.
13. All conveyance channels, both temporary and permanent shall be stabilized to prevent erosion of the channel. Stabilization shall extend to areas at outlets and downstream reaches vulnerable to erosion resulting from flow discharging from the channel.
14. If BMP's shown are utilized but are insufficient to prevent sediment from reaching water bodies, adjacent properties, or public rights-of-way; additional BMP's shall be implemented immediately to prevent further encroachment of sediment.
15. Stabilized areas shall be provided for employee parking and storage of construction materials. Erodeable stockpiles of earthen materials, such as topsoil, silty and clayey soils; and landscape materials, shall be covered when not being incorporated in the work. Erosion control BMP's shall be utilized as necessary to prevent sediment laden runoff from leaving or sediment being transported from these areas from vehicle activity.
16. All pollutants other than sediment that occur during construction shall be handled and disposed of in a manner that does not cause contamination of storm water.
17. The Contractor shall keep an inspection log of the condition of the erosion control facilities. Erosion control facilities shall be inspected at least weekly and after each rainfall. The inspection log shall be kept at the project site at a designated location and shall be available for review by the County. An individual that has successfully completed the County's Erosion Control Certification course shall perform inspections and maintain the

18. All temporary BMP's shall be removed within 30 days after final site stabilization is achieved. Trapped sediment shall be deposited and stabilized on site. Areas disturbed resulting from removal shall be permanently stabilized.
 19. Construction shall not be considered complete and acceptable until all disturbed soil surfaces have been protected from erosion with permanent landscaping, covering with impervious surfaces, restored to original undisturbed condition or permanently stabilized.
 20. Vegetated stabilization and landscaping shall be fertilized, watered and maintained to insure that growth of vegetation is established and sustained.
 21. During dry weather construction periods the contractor shall provide project-specific dust control measures that may include: Seeding, Mulching, Matting, Water, Tackifier, or Chemical Soil Stabilizers. The contractor shall maintain the dust control measures through dry weather periods until all disturbed areas have been stabilized. Immediately re-stabilize areas disturbed by contractor's operations or other activities (wind, water, vandalism, etc.).
- NOTE:**
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL EFFORT IS DICTATED BY WEATHER CONDITIONS. THE DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO PROVIDE EXTRA EROSION CONTROL PROVISIONS AND EFFORT DURING WINTER AND WET WEATHER CONDITIONS BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND DRY WEATHER CONDITIONS. FINE GRAINED AND UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME UNSTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

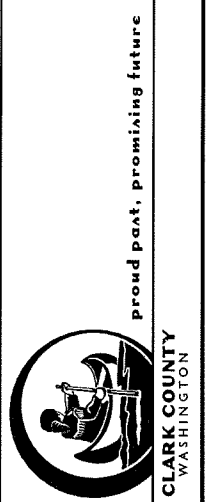
PRELIMINARY

DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	NA
VERT.	NA
DATE	09/28/04
DWG.	EC2
SHEET	7 OF 28

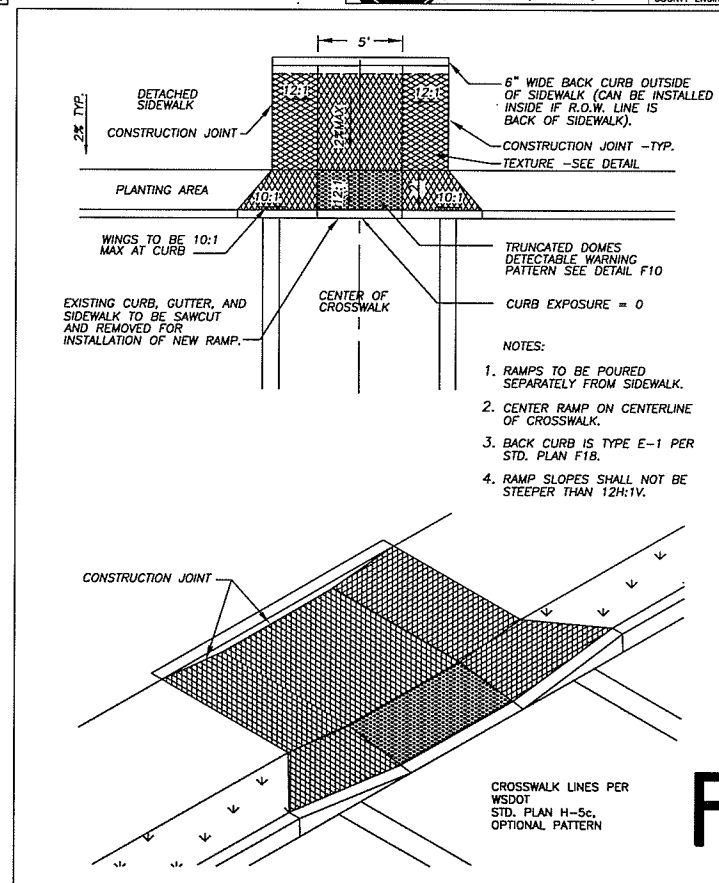
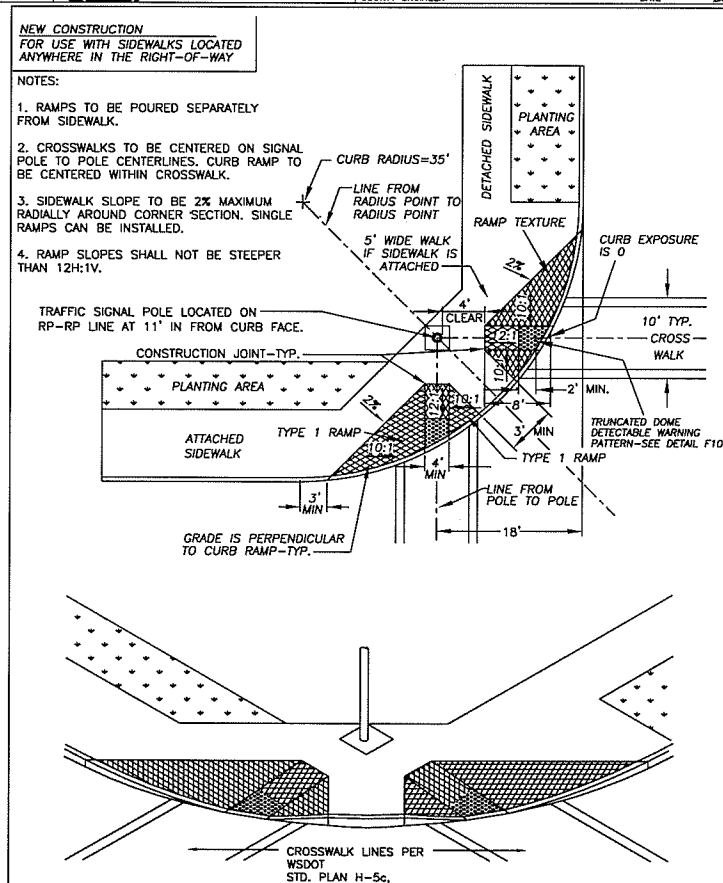
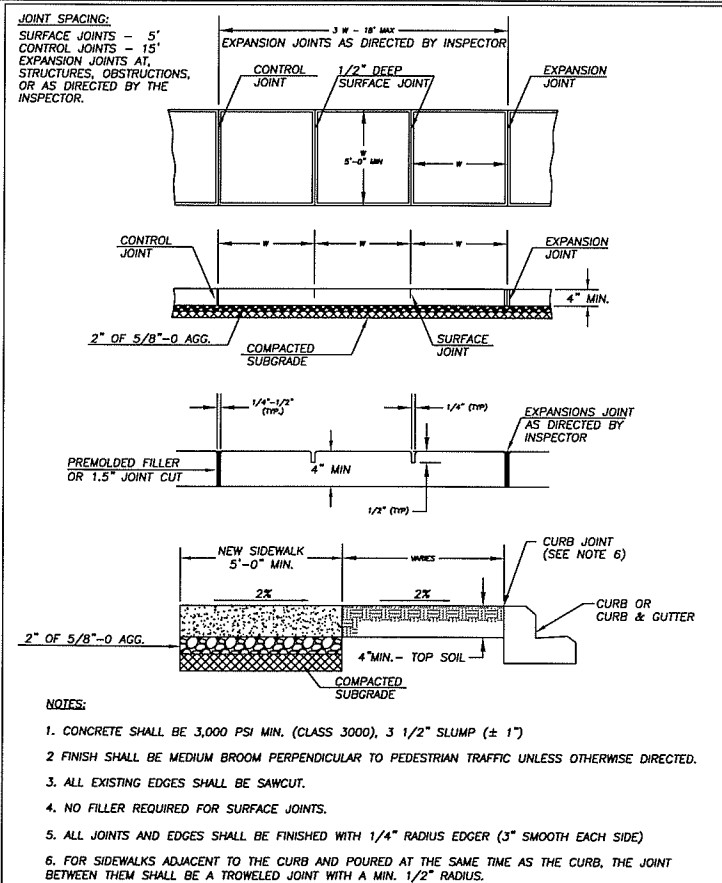
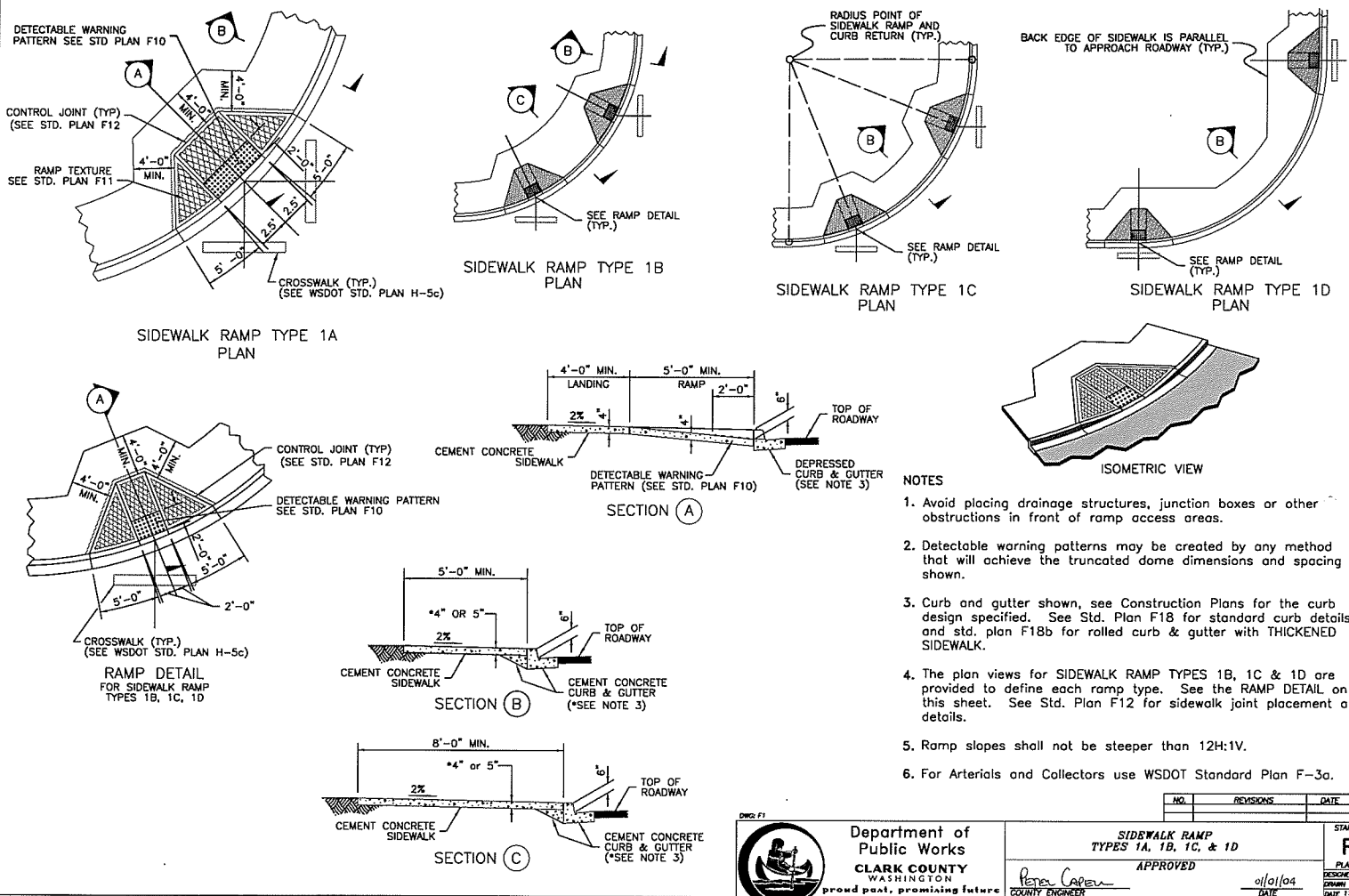


DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
EROSION CONTROL DETAILS



N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Drawings\137THD01.dwg, 9/29/2004 3:26:45 PM, kcr1nr



PRELIMINARY

SURFACING:

1. All A.C.P. shall be saw cut to provide a straight, clean edge prior to paving.
2. The cut line shall be one continuous straight line from the outer excavation limits of manhole, valve box, etc. to manhole, valve box, etc.
3. Pave with an 0.5 ft. minimum compacted depth A.C.P., or match existing or design section, whichever is greater.
4. Lifts for A.C.P. (Class A) shall be 0.15 ft. minimum and 0.35 ft. maximum for non-surface lifts (0.25" maximum for surface lift); the temperature shall be 25 degree minimum, 35 degree maximum, compacted to 92% of the theoretical maximum.
5. All joints shall be locked, sealed and sanded.
6. Trench shall be plotted until paved.
7. For longitudinal installation, full lane width including turn lanes restoration shall be required or as directed by Clark County. For transverse installation refer to surfacing restoration of detail U6. See Section 12.20A, 12.02C.

BASE COURSE:

1. 0.80 ft. minimum depth (1'-1/4" minus C.S.B.C. (W.S.D.O.T. approved material)).
2. Compacted to 95% of maximum density. See trench zone.
3. Equivalent depth of A.T.B. may be substituted.
4. For transverse or diagonal trenches in existing road/pavement, CDF (as defined in the standard specifications section 2-09.3.1(E)) will be used for a minimum of 3' in depth or from 6" above the top of the pipe to the bottom of full pavement section which ever is less.

TRENCH_ZONE:

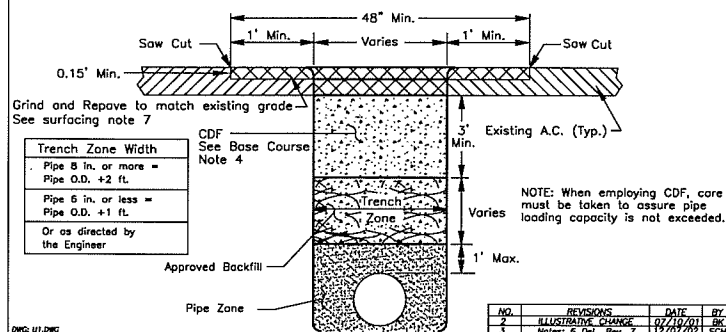
1. Granular backfill as approved by local agency or W.S.D.O.T. specifications for granular backfill. Compacted to 95% of maximum density in the trench zone using Method C compaction as per Section 2-03.3(14)C.
2. Native material may be used if approved prior to construction by Clark County.
3. Trench zone width -- see below.

PIPE_ZONE:

1. Pipe zone material as specified by utility owner, and shall conform to section 9-03.12(3) WSDOT Specs.
2. 1.0 ft. max. from top of the pipe. 6" from top of pipe when CDF backfill used.

CONDITIONS:

1. A copy of the permit and requirements shall be on the job site at all times.
2. The permit holder shall be responsible for all restoration and maintenance of ditches, shoulders, driveways, landscaping, etc.
3. Call Clark County at 397-2446 twenty-four hours prior to commencing work.



Department of
Public Works
CLARK COUNTY
WASHINGTON
loud past, promising fr

OPEN CUT UTILITY TRENCH BACKFILL DETAIL
COLLECTOR OR ARTERIAL ROADWAY

APPROVED

Peper Capen 7/20/01
COUNTY ENGINEER DATE

Peter Capen
COUNTY ENGINEER

STANDARD	
U1	
PLAN No.	
DESIGNED	
DRAWN	
DATE: 04/25/03	

SHOULDER ROCK:

1. 0.50 ft. minimum depth (1 1/4" minus) crushed rock. (Clark County Approved Material).
2. Compacted to 95% of maximum density. See trench zone.
3. Rock shall extend from E.O.P. to the back of trench at approx. .05 Ft./Ft. slope.

LAWN & LANDSCAPE AREAS:

1. A County approved top soil shall be placed 0.50 Ft. in depth.
2. Area to be restored to match existing.

TRENCH ZONE:

Where the distance from E.O.T. to E.O.P. is less than or equal to the depth of the trench;
these conditions shall apply:

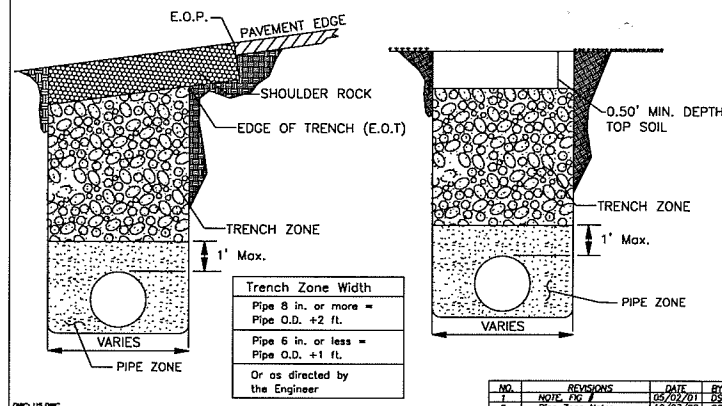
1. Granular backfill as approved by local agency or W.S.D.O.T, specifications for granular backfill. Compacted to 95% of maximum density in the trench zone using Method C compaction as per Section 2-03.3 (14)C.
2. Native material may be used if approved prior to construction.
3. Trench zone width -- see below.
4. Shoulder rock or landscaped sections as applicable.

PIPE ZONE:

1. Pipe zone material as specified by utility owner, and shall conform to section 9-03.12(3) WSDOT Specs.
2. 1.0 ft. max. from top of the pipe.

CONDITIONS:

1. A copy of the permit and requirements shall be on the job site at all times.
2. The permit holder shall be responsible for all restoration and maintenance of ditches, shoulders, driveways, landscaping, etc.
3. Call Clark County at 397-2446 twenty-four hours prior to commencing work.



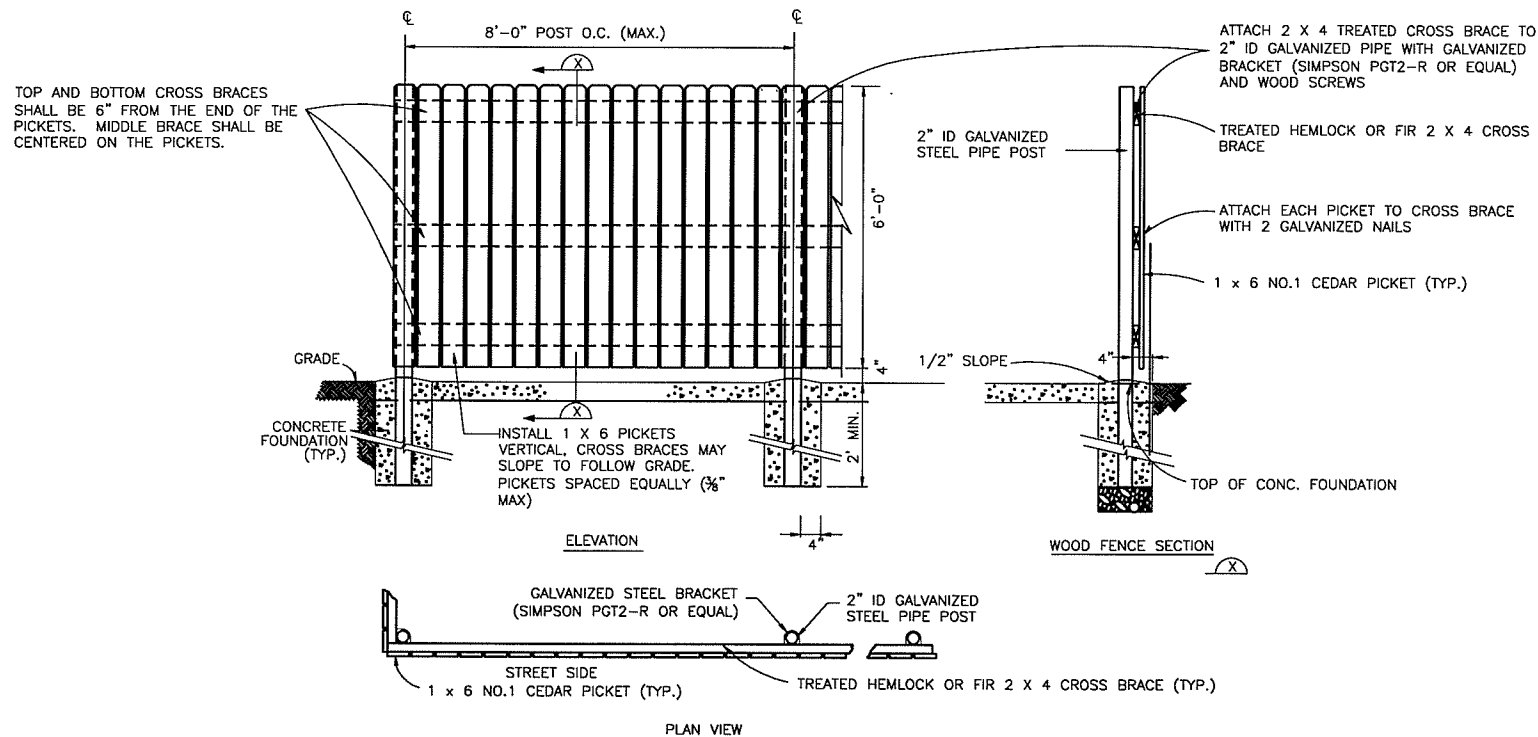
Department of
Public Works
CLARK COUNTY
WASHINGTON
roud past, promising f

CLARK COUNTY
WASHINGTON
Proud past, promising future

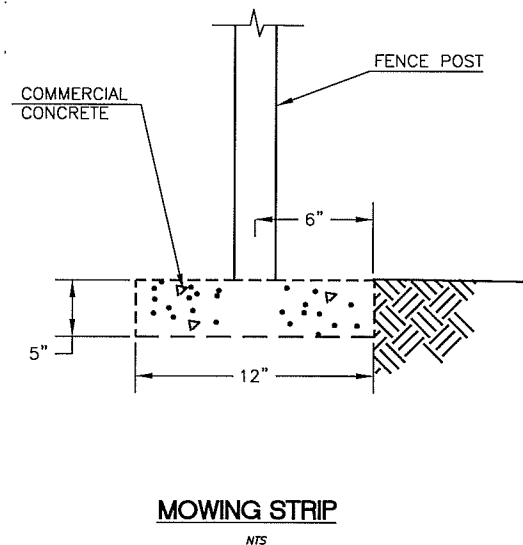
ROADWAY SHOULDER
INCLUDES LAWN & LANDSCAPE
APPROVED

APPROVED

NOTES	10/07/02	302
TYPE	STANDARD	U5
5/4/01	PLAN No.	
DATE	DESIGNED	
	DRAWN	
	DATE 04/23/01	



WOOD FENCE DETAILS



PRELIMINARY

DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	NA
VERT.	NA
DATE	09/28/04
DWG:	DO2
SHEET 9	OF 28



DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
ROADWAY DETAILS

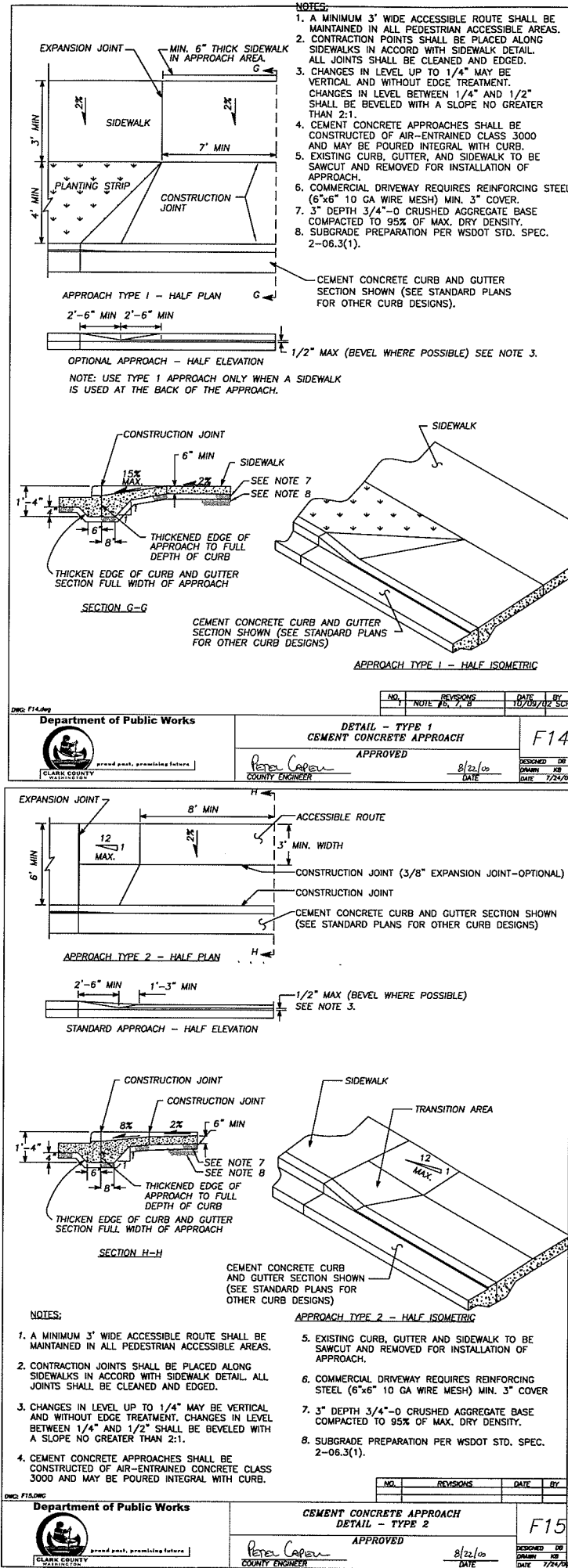
proud past, promising future



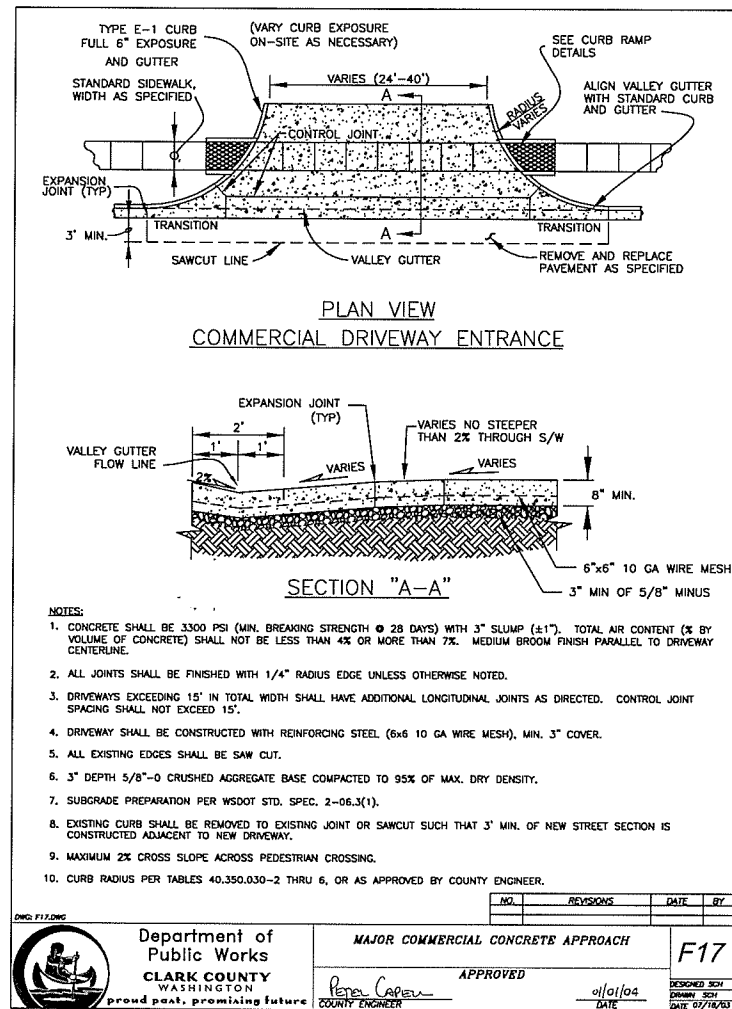
CLARK COUNTY

2 OF 28

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Drawgs\137THD03.dwg, 9/28/2004 9:09:06 AM, kerrlinr



PRELIMINARY



DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
ROADWAY DETAILS



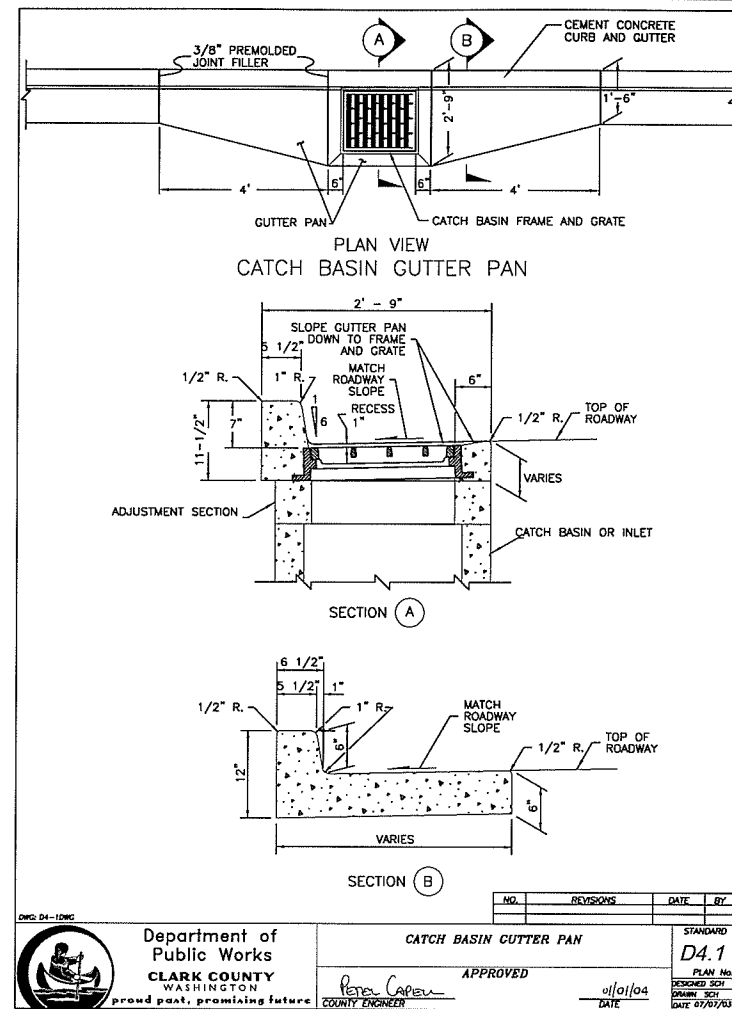
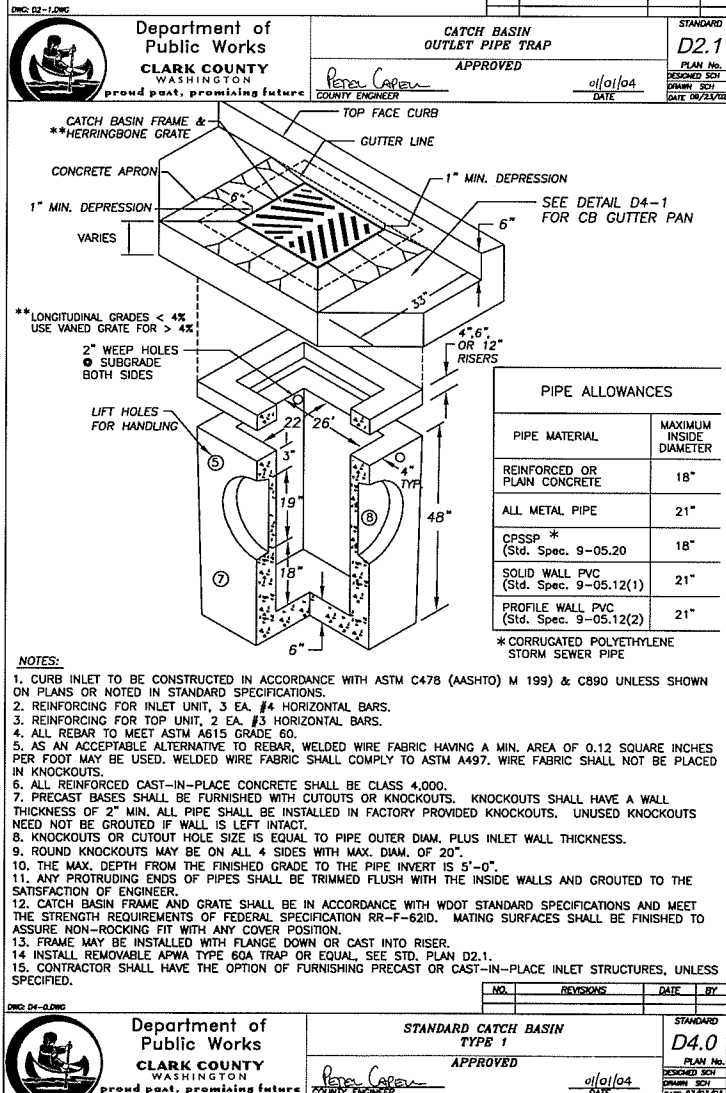
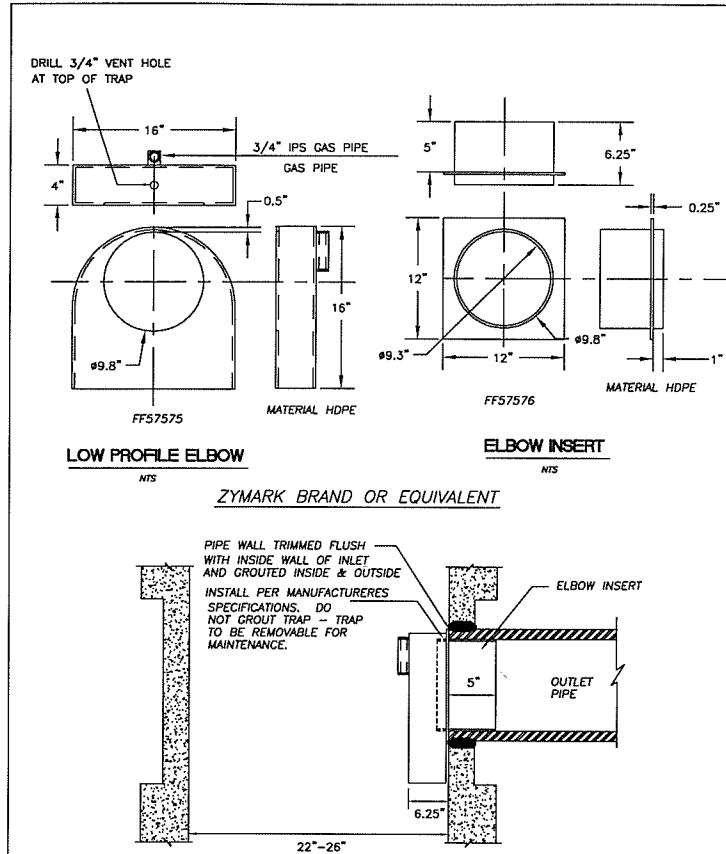
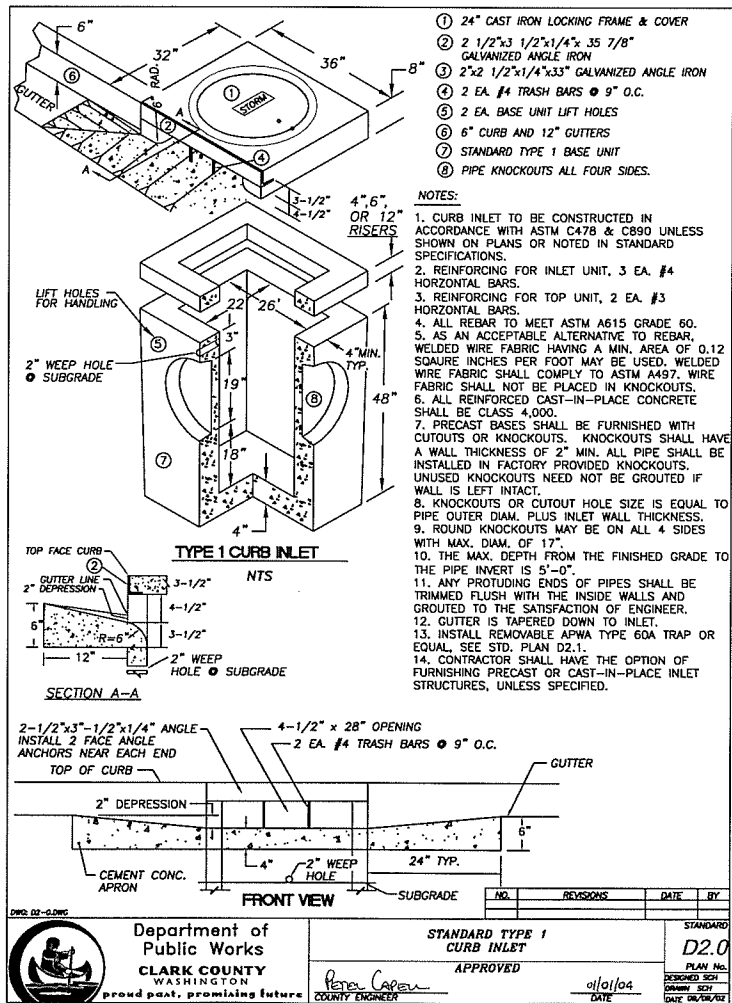
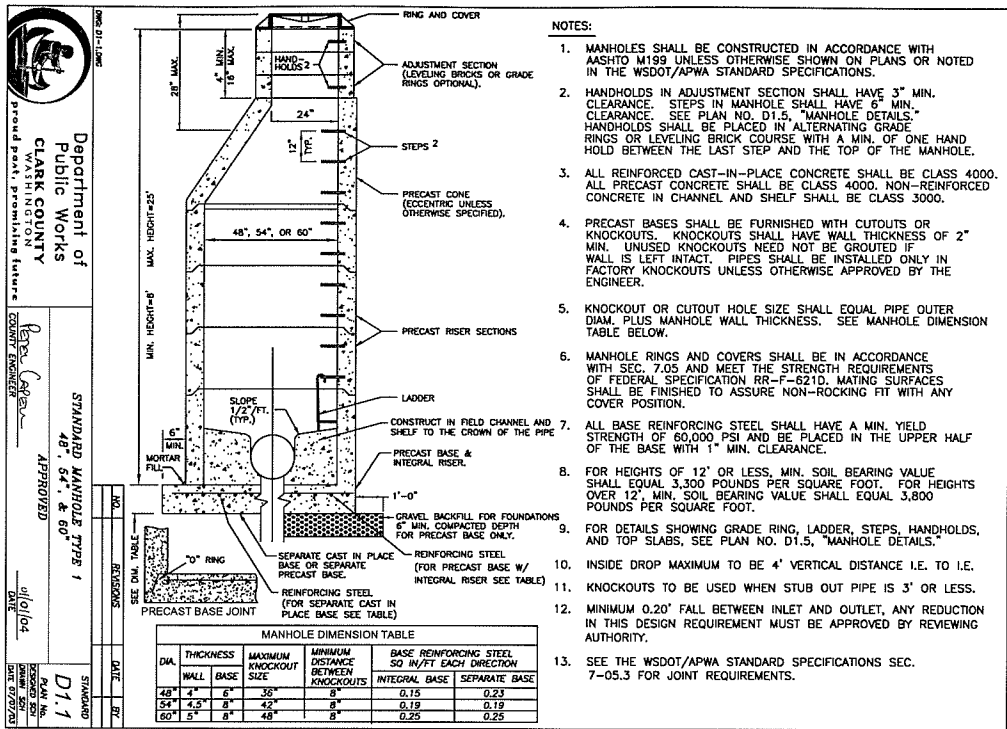
proud past, promising future

CLARK COUNTY
WASHINGTON



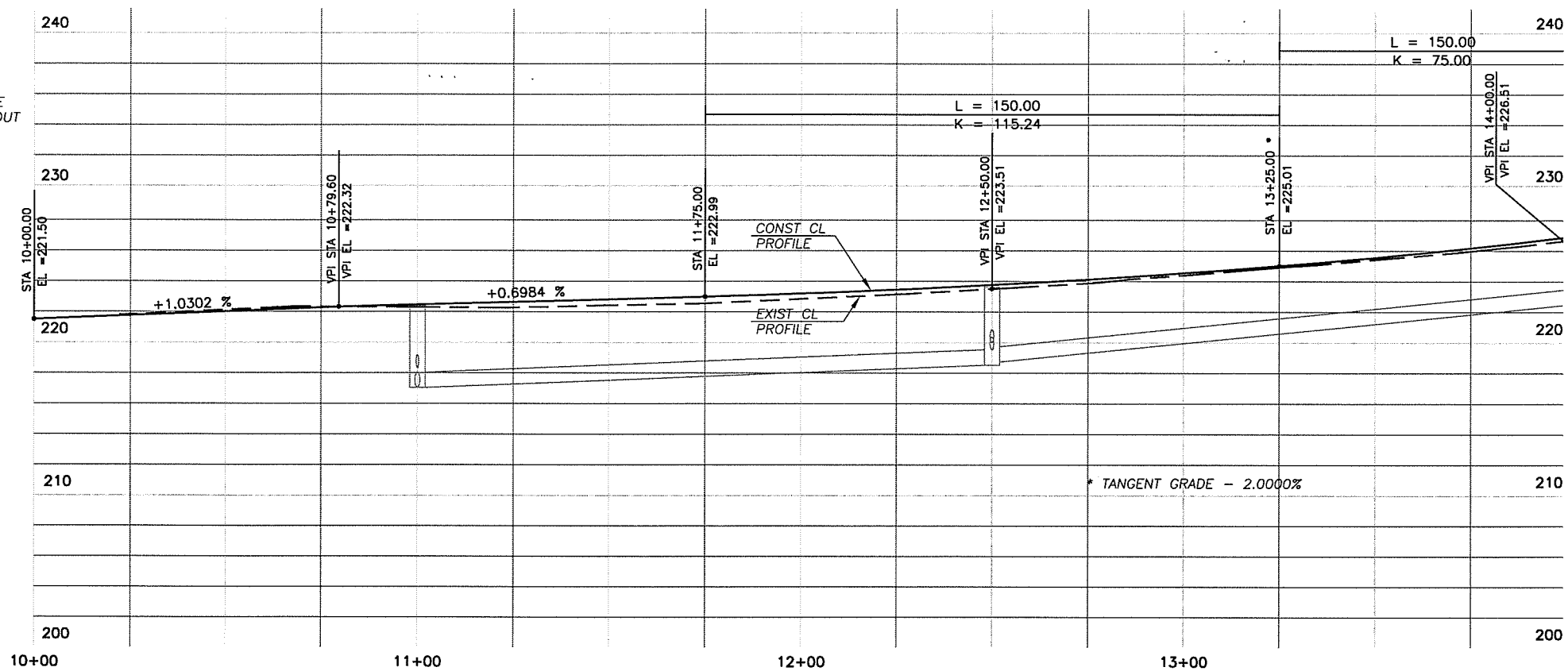
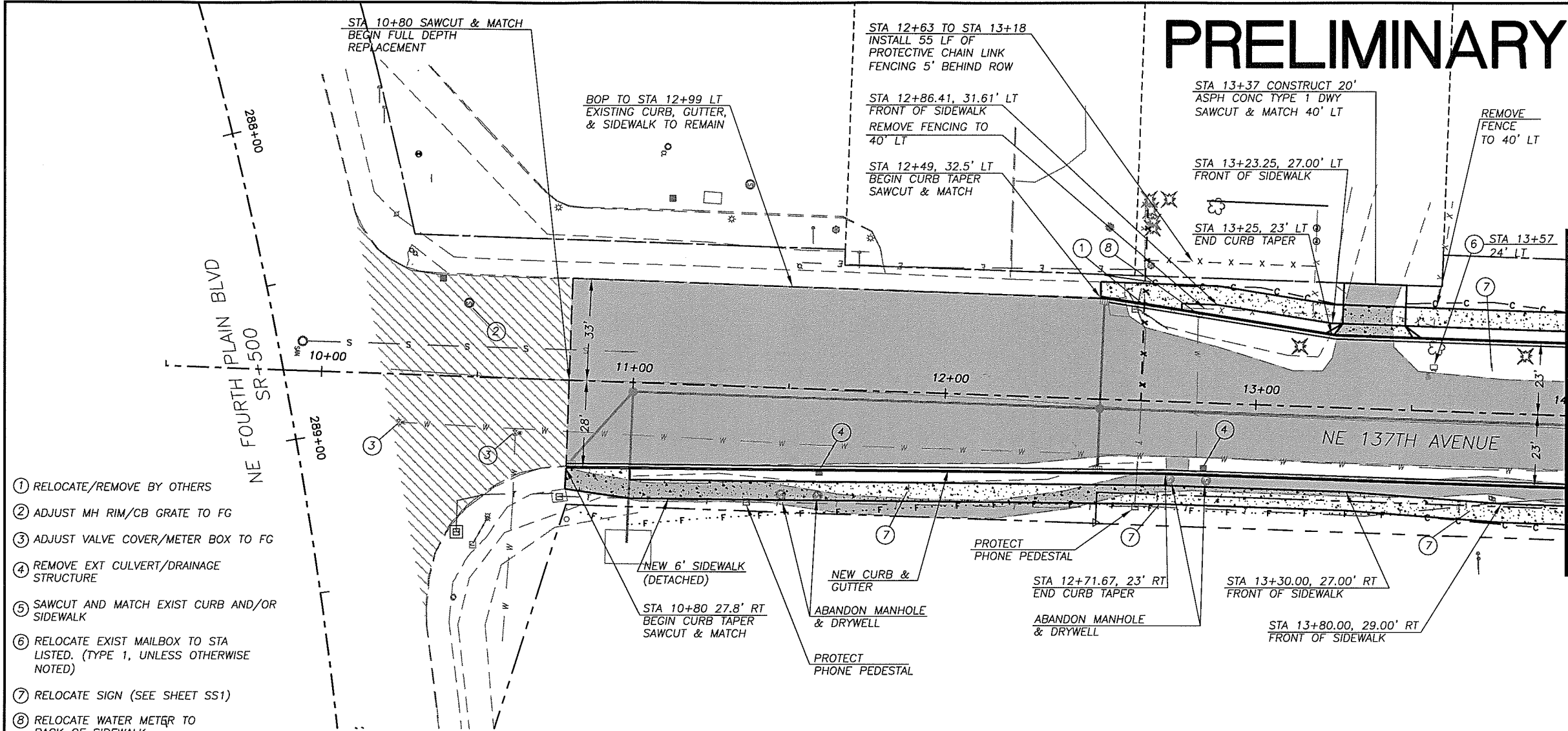
DESIGNED JRK
DRAWN RK
CRP 321122
HOR. NA
VERT. NA
DATE 09/28/04
DWG: DO3
SHEET 10 OF 28

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Low"
NORTHWEST UTILITIES CENTER
NOTIFICATION CENTER



PRELIMINARY

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Drawings\137THPP1.dwg, 9/28/2004 10:06:09 AM, kerdlin



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	661 C.Y.
EMBANKMENT	40 C.Y.

DESIGNED JRK
DRAWN RK
CRP 321122
HOR. NA
VERT. NA
DATE 09/28/04
DWG. PP1
SHEET 13 OF 28

CALL 48 HOURS
BEFORE YOU DIG
1-800-
553-4344
"It's the Law"
NORTHWEST
UTILITIES
NOTIFICATION CENTER

SEAL
CLARK COUNTY
ENGINEER
EXPIRES JANUARY 30, 2005

DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
PLAN & PROFILE (B.O.P. TO STA 14+00)

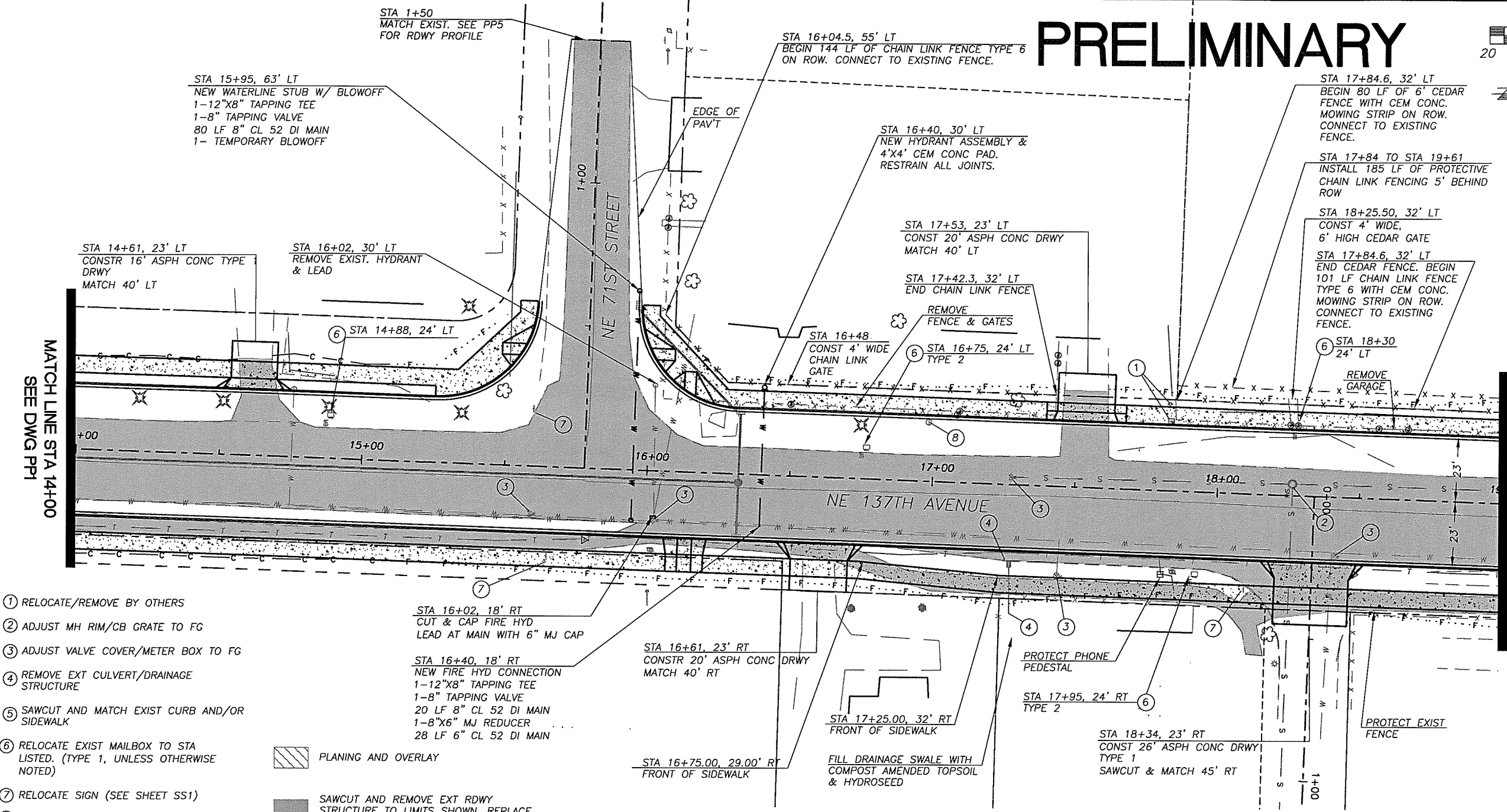
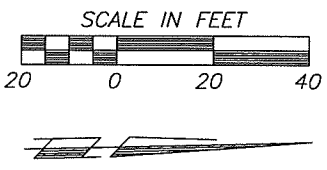
proud past, promising future
CLARK COUNTY
WASHINGTON

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\DWG\317THPP2.dwg, 9/30/2004 7:41:34 AM, kerrlin

MATCH LINE STA 14+00
SEE DWG PP1

MATCH LINE STA 19+00
SEE DWG PP3

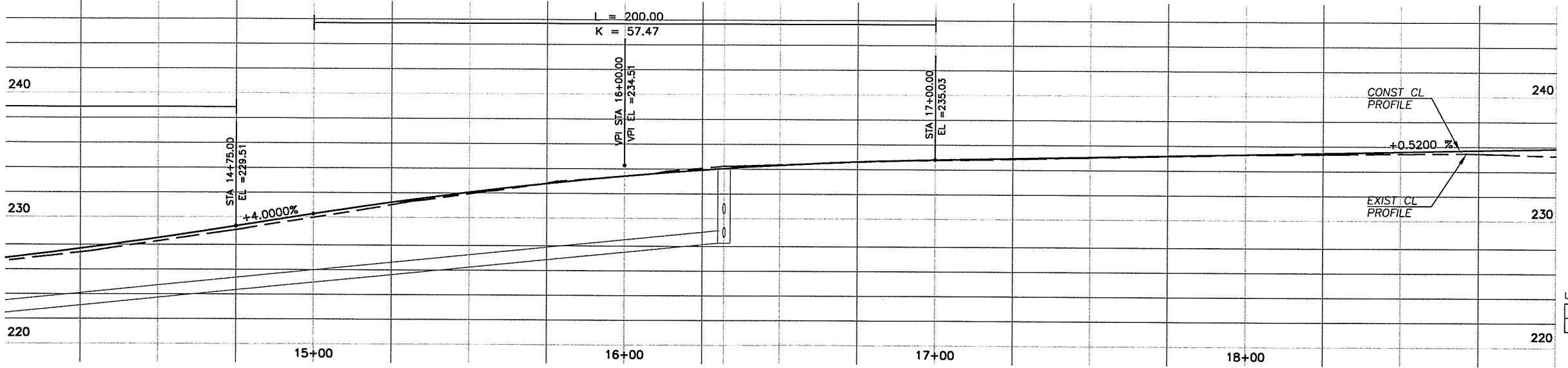
PRELIMINARY



- ① RELOCATE/REMOVE BY OTHERS
- ② ADJUST MH RIM/CB GRATE TO FG
- ③ ADJUST VALVE COVER/METER BOX TO FG
- ④ REMOVE EXT CULVERT/DRAINAGE STRUCTURE
- ⑤ SAWCUT AND MATCH EXIST CURB AND/OR SIDEWALK
- ⑥ RELOCATE EXIST MAILBOX TO STA LISTED. (TYPE 1, UNLESS OTHERWISE NOTED)
- ⑦ RELOCATE SIGN (SEE SHEET SS1)
- ⑧ RELOCATE WATER METER TO BACK OF SIDEWALK

PLANING AND OVERLAY

SAWCUT AND REMOVE EXT RDWY STRUCTURE TO LIMITS SHOWN. REPLACE PER TYPICAL SECTIONS AND PLAN LAYOUT



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	1156 C.Y.
EMBANKMENT	46 C.Y.

DESIGNED JRK
DRAWN RK
CRP 321122
HOR. 1"=20'
VERT. NA
DATE 09/28/04
DWC: PP2
SHEET 14 OF 28

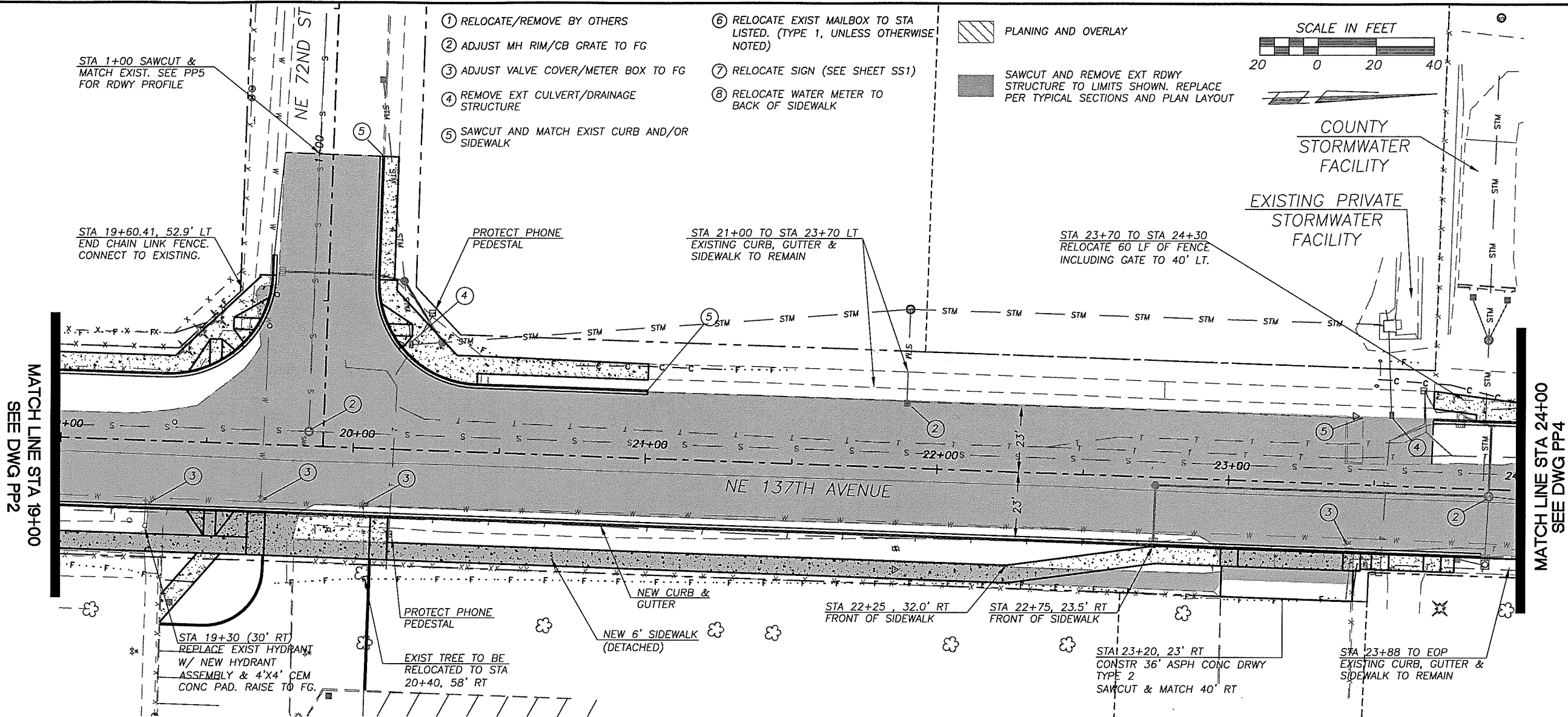
CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Law"
NORTHWEST UTILITIES
NOTIFICATION CENTER

DESIGN & ENGINEERING DIVISION
DESIGN SECTION

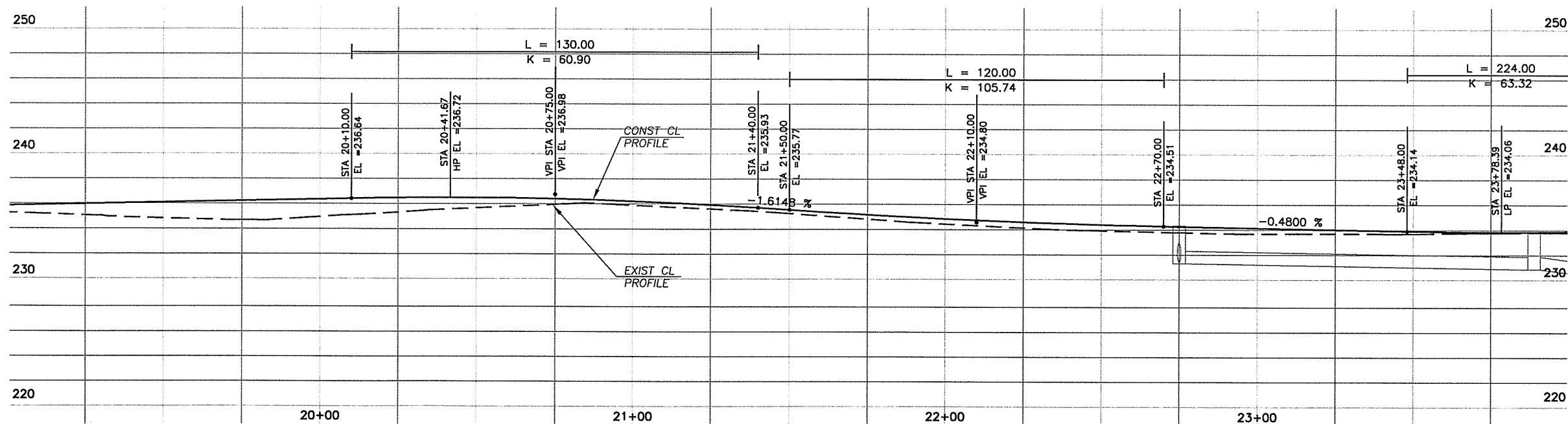
NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
PLAN & PROFILE (STA 14+00 TO STA 19+00)

proud part, promising future
CLARK COUNTY
WASHINGTON

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Draws\137THPP3.dwg, 9/30/2004 7:58:03 AM, kerrlin



PRELIMINARY



DESIGNED JRK

DRAWN RK

CRP 321122

HOR. 1"=20'

VERT. 1"=20'

DATE 09/28/04

DWG. PP3

SHEET 15 OF 28

CALL 48 HOURS BEFORE YOU DIG

1-800-553-4344

"It's the Low"

NORTHWEST CONSULTING

NOTIFICATION CENTER

EXPIRES JANUARY 20, 2008

DESIGN & ENGINEERING DIVISION

DESIGN SECTION

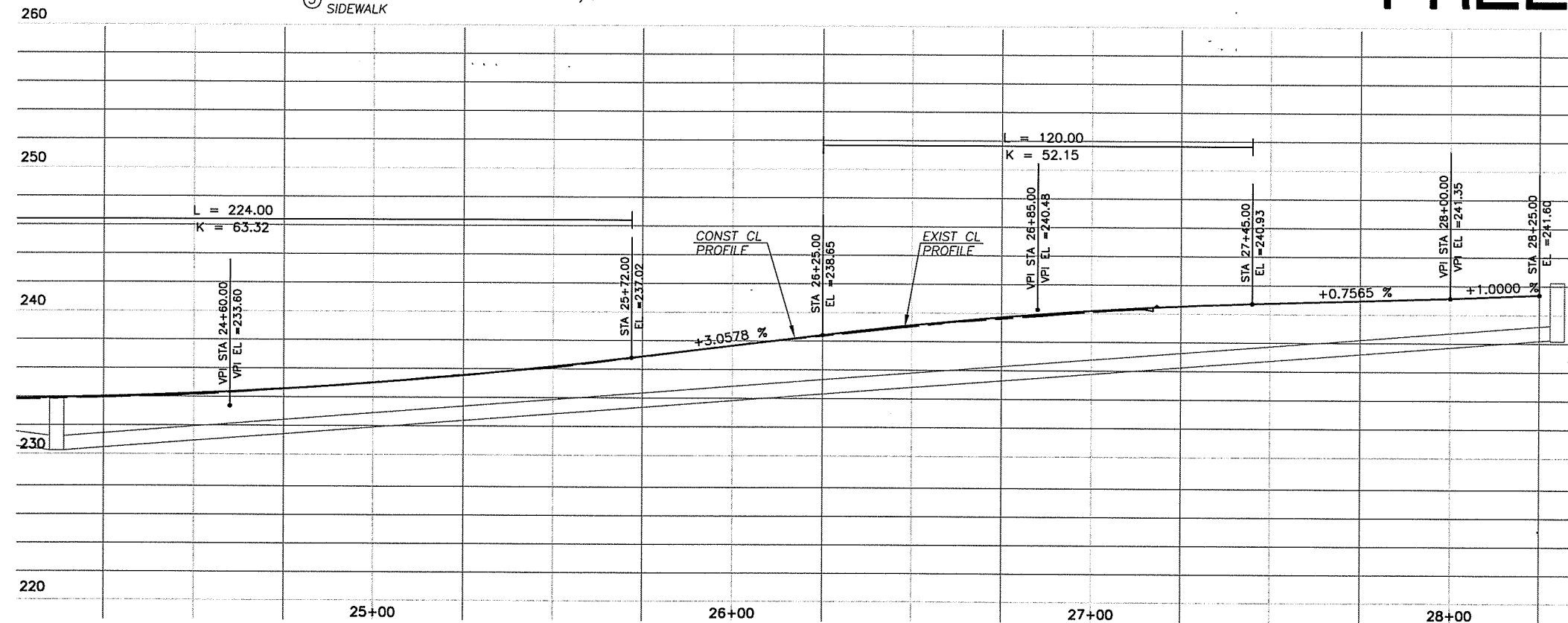
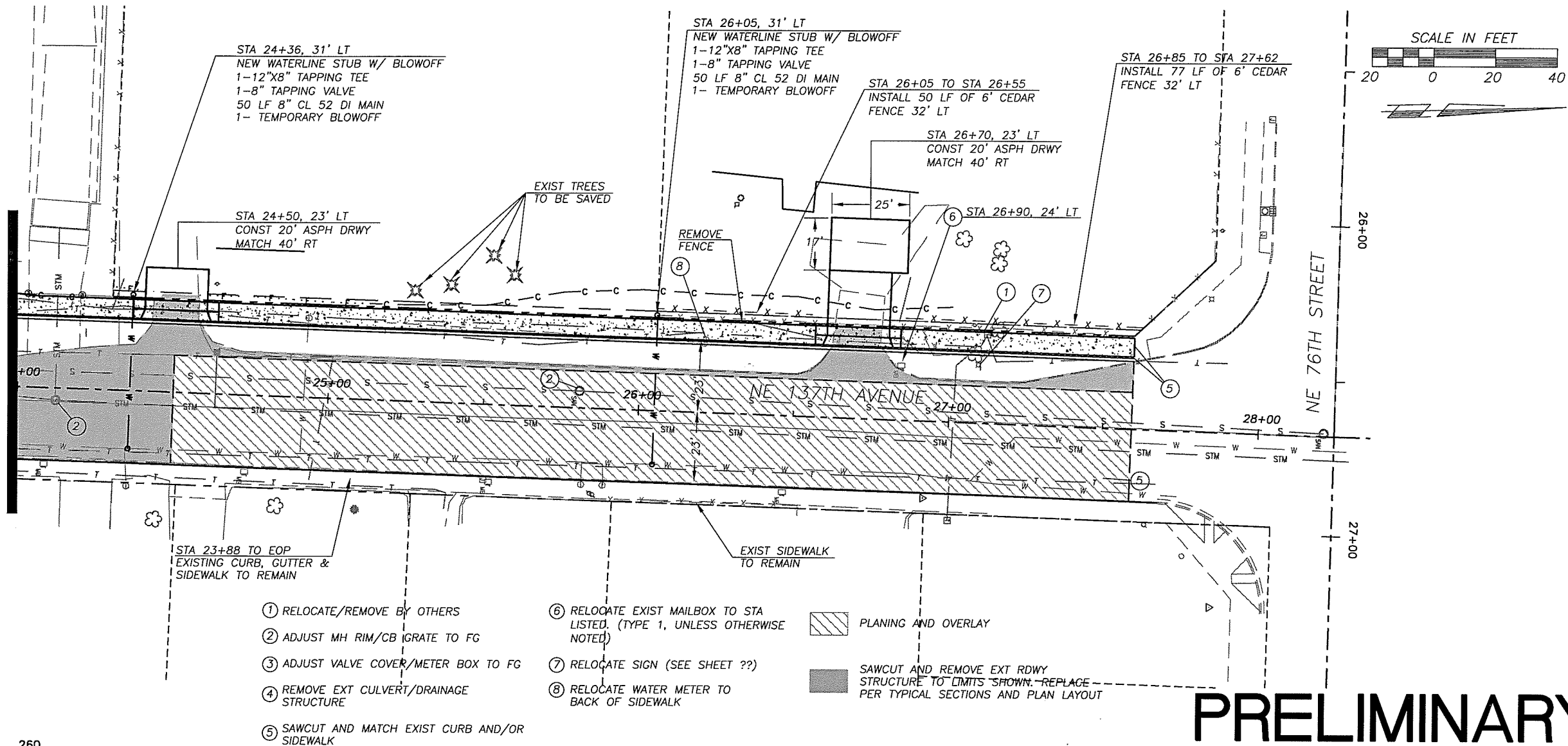
NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)

PLAN & PROFILE (STA 19+00 TO STA 24+00)

CLARK COUNTY WASHINGTON

proud past, promising future

MATCH LINE STA 24+00
SEE DWG PP3



UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	763 C.Y.
EMBANKMENT	11 C.Y.

PRELIMINARY

DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
PLAN & PROFILE (STA 24+00 TO E.O.P.)

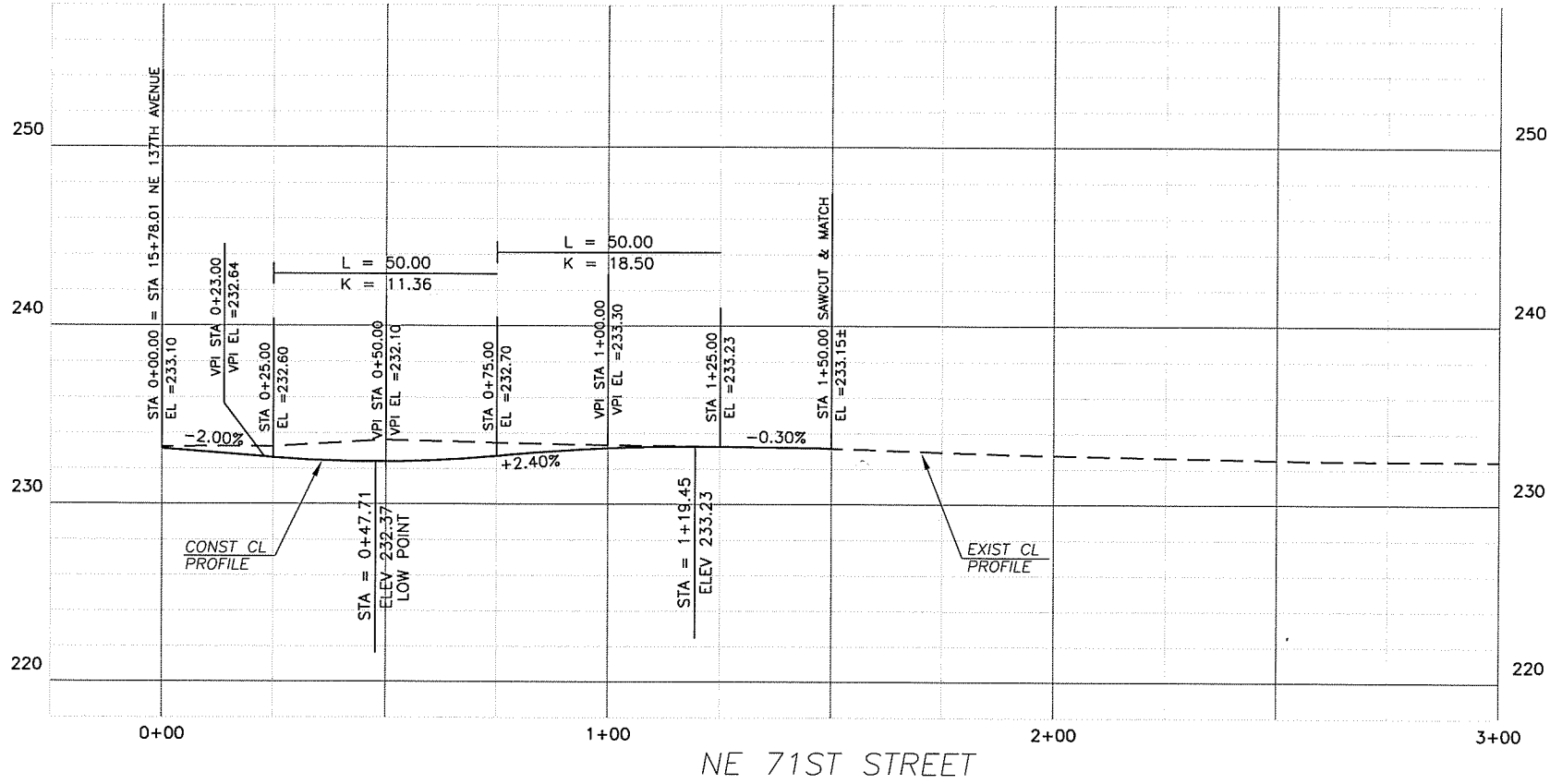
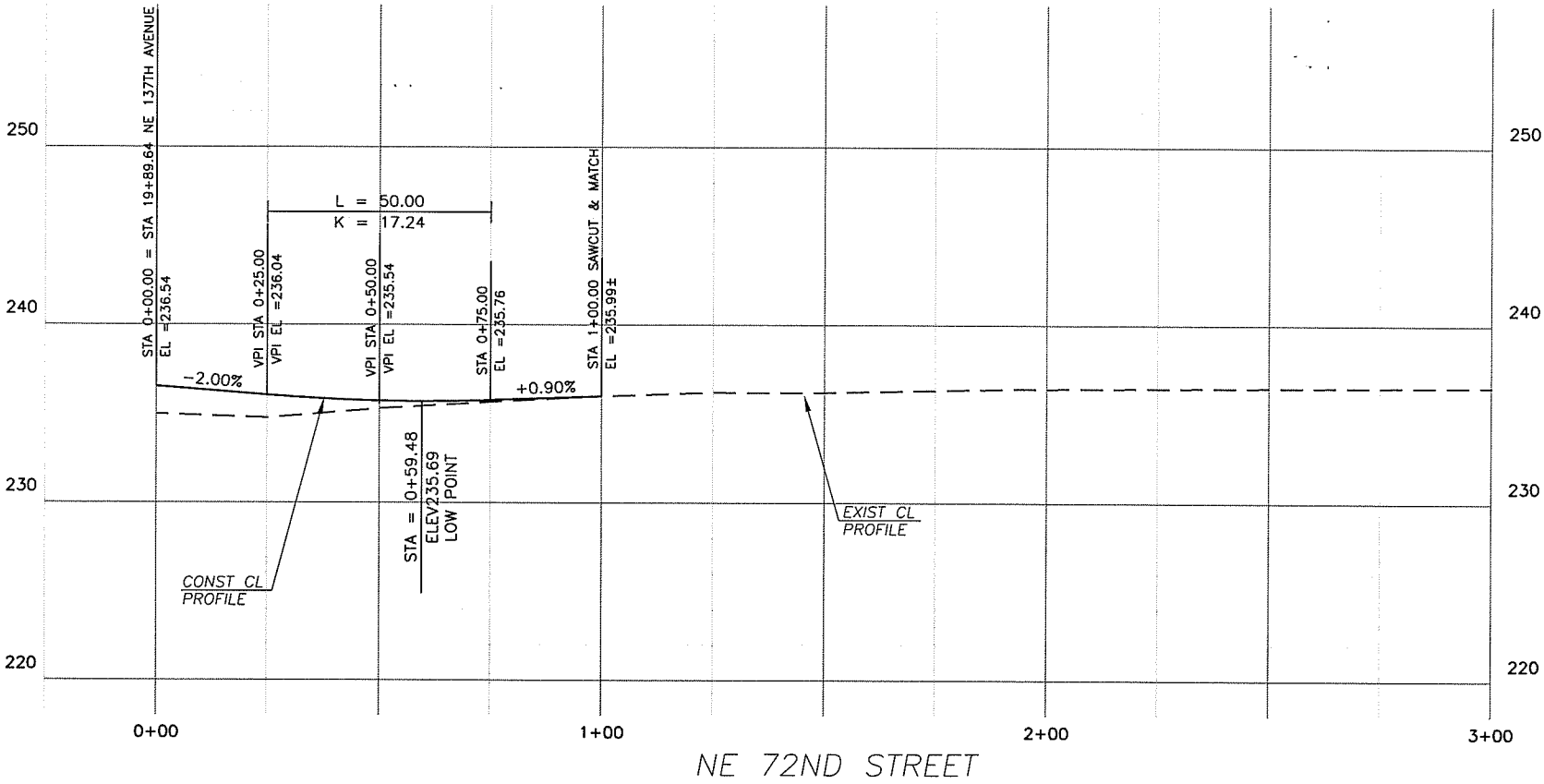


CLARK COUNTY
WASHINGTON



DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	1"=20'
VERT.	NA
DATE	09/28/04
DWG.	PP4
SHEET	16 OF 28

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Low"
NORTHWEST UTILITIES NOTIFICATION CENTER



PRELIMINARY



proud past, promising future

DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
PLAN & PROFILE (NE 71ST STREET/NE 72ND STREET)



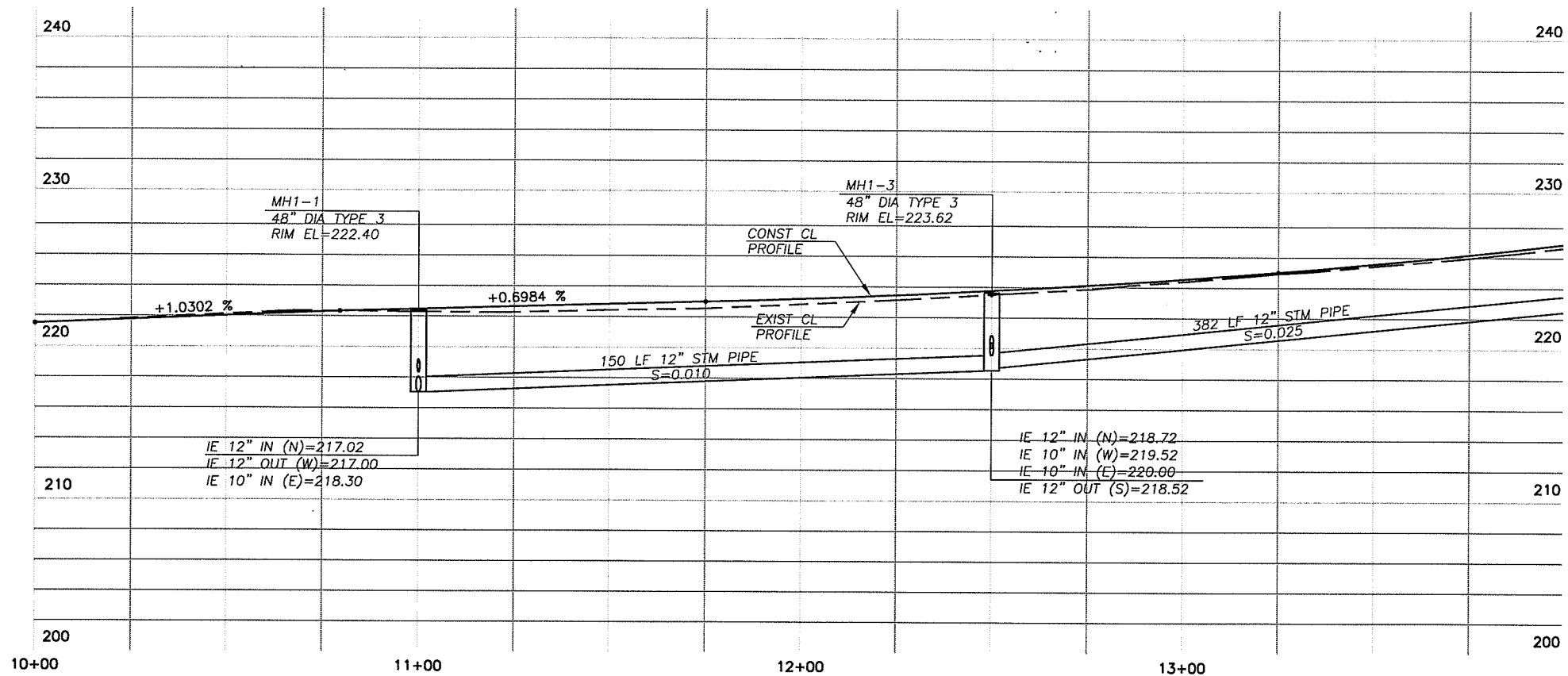
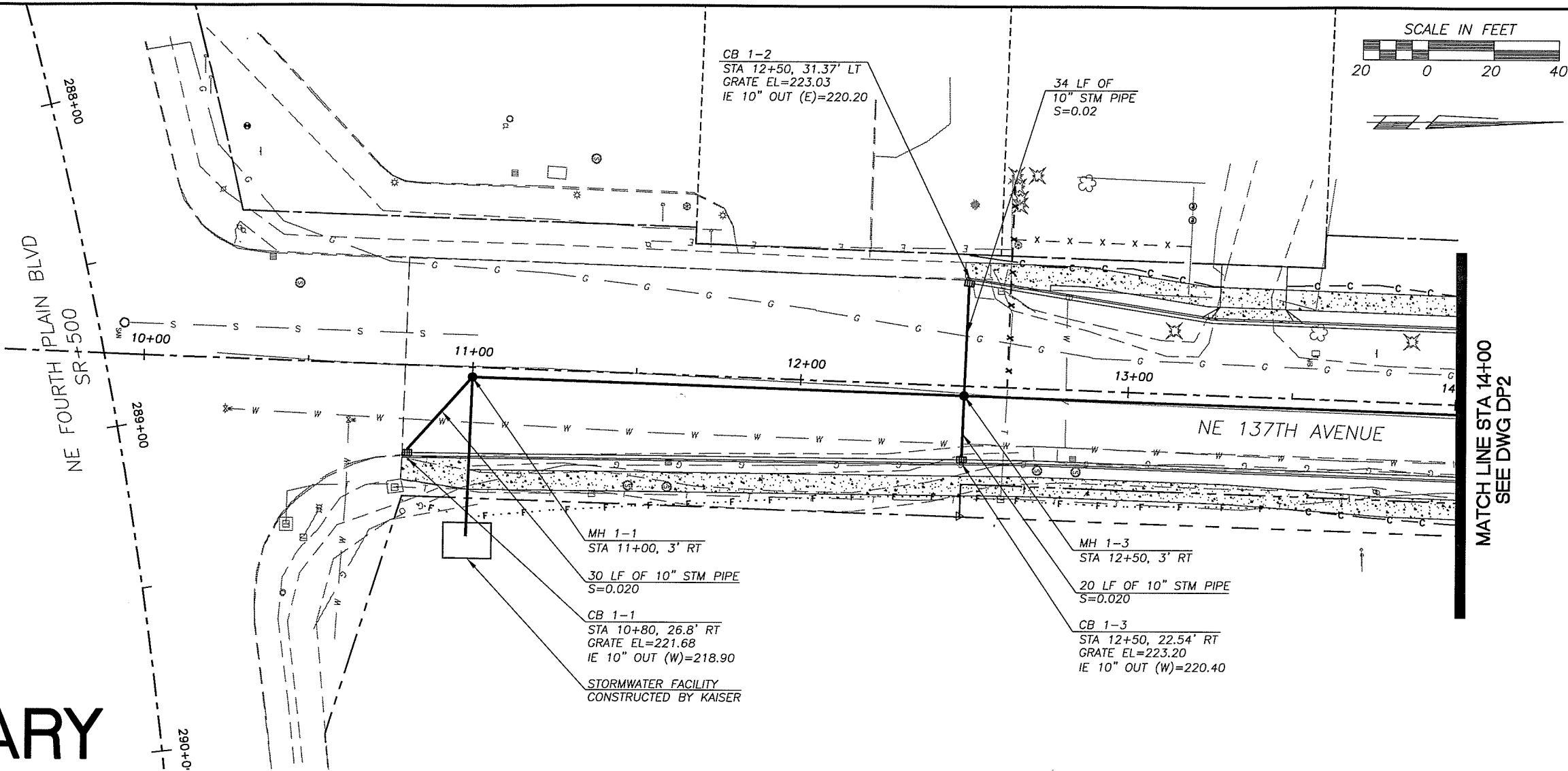
CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Low"




NORTHWEST UTILITIES NOTIFICATION CENTER

DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	1"=20'
VERT.	NA
DATE	09/28/04
DWG.	PP5
SHEET	17 OF 28

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Draws\137THDP1.dwg, 9/28/2004 10:33:19 AM, kerrlin

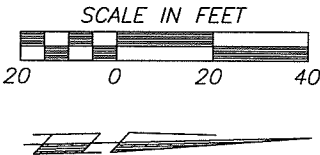
PRELIMINARY



 CLARK COUNTY WASHINGTON	DESIGN & ENGINEERING DIVISION DESIGN SECTION NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST) DRAINAGE PLAN (B.O.P. TO STA 14+00)	 REGISTERED PROFESSIONAL ENGINEER WASHINGTON EXPIRATION DATE 12/31/2007	 NORTHWEST UTILITIES NOTIFICATION CENTER	DESIGNED: JRK	DATE: 09/28/04	DWG: DP1	SHEET 18 OF 28
				DRAWN: RK	CRP: 321122	HOR: NA	
CALL 48 HOURS BEFORE YOU DIG 1-800-553-4344 "It's the Law"							

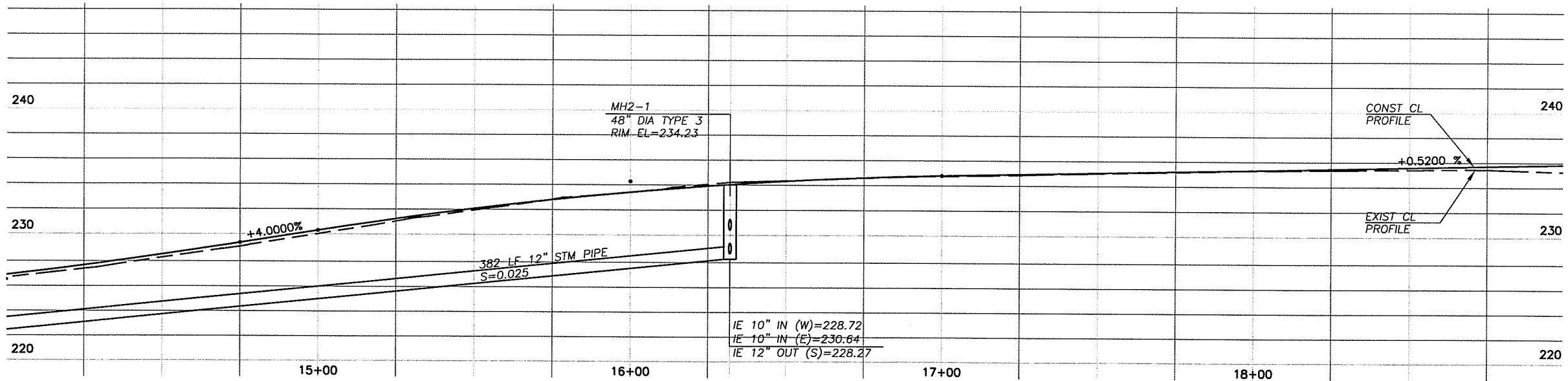
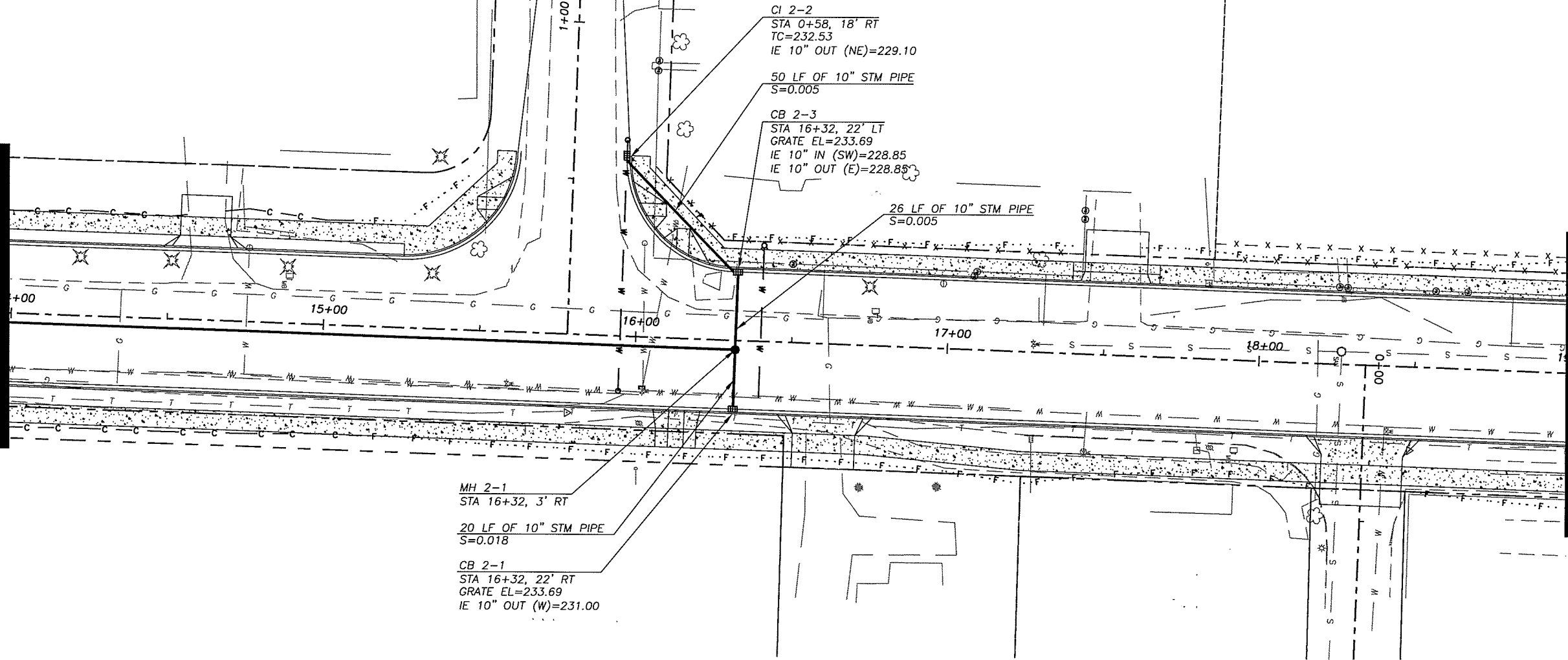
N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Draws\137THDP2.dwg, 9/29/2004 11:14:25 AM, kerrlin

PRELIMINARY

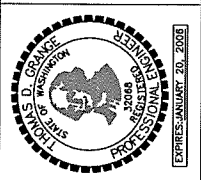


MATCH LINE STA 14+00
SEE DWG DP1

MATCH LINE STA 19+00
SEE DWG DP3



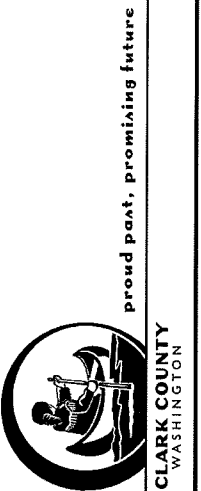
DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	1"=20'
VERT.	NA
DATE	09/28/04
DWG.	DP2
SHEET	19 OF 28



DESIGN & ENGINEERING DIVISION

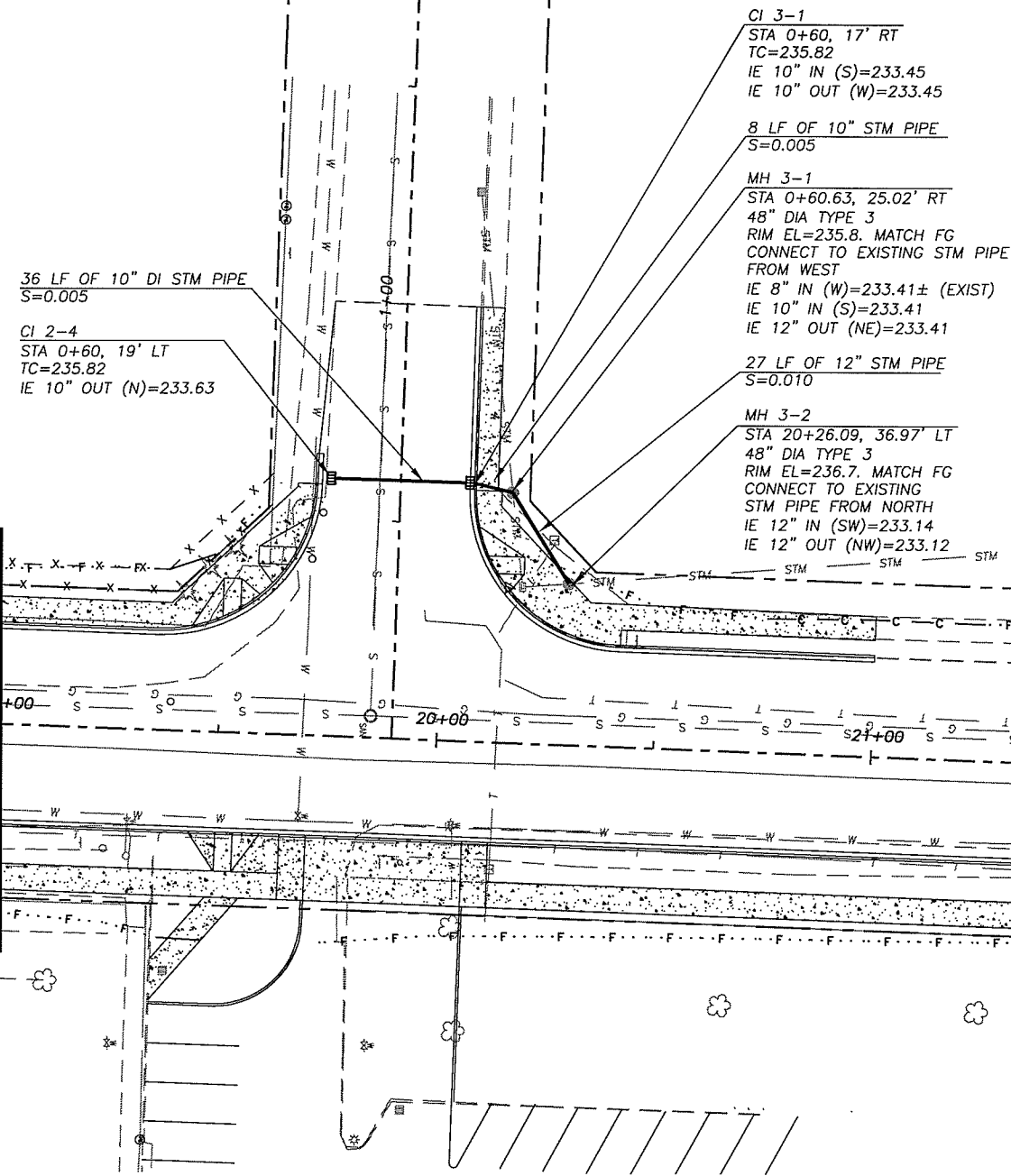
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
DRAINAGE PLAN (STA 14+00 TO STA 19+00)



N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Drawings\137THDP3.dwg, 9/29/2004 8:09:55 AM, kerklinr

MATCH LINE STA 19+00
SEE DWG DP2



NE 137TH AVENUE

MH 3-3
STA 22+75, 3' RT
23 LF OF 10" DI STM PIPE
S=0.004

CB 3-2
STA 22+75, 22' RT
GRATE EL=233.95
IE 10" OUT (W)=231.67

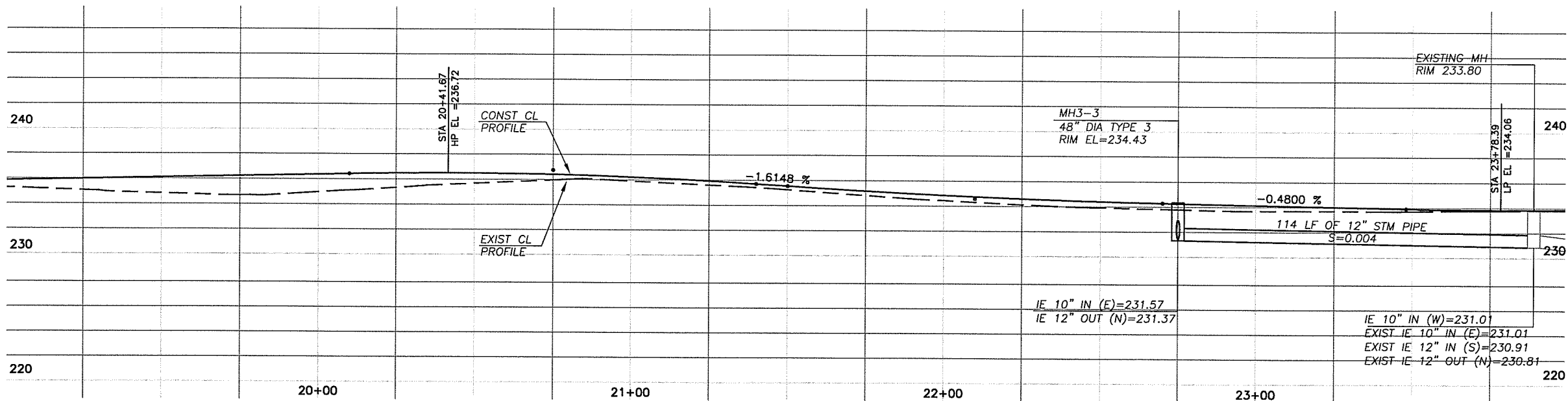
CI 3-1
STA 23+87, 23' LT
TC=233.89
IE 10" OUT (E)=231.15
IE 10" IN (S)=231.15

7 LF OF 10" STM PIPE
S=0.020

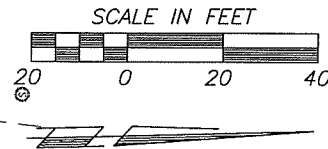
CI 3-2
STA 23+78, 23' LT
TC=233.86
IE 10" OUT (N)=231.29

27 LF OF 10" STM PIPE
S=0.005
CONNECT TO EXISTING MH

MATCH LINE STA 24+00
SEE DWG DP4



PRELIMINARY



DESIGN & ENGINEERING DIVISION
DESIGN SECTION
NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
DRAINAGE PLAN (STA 19+00 TO STA 24+00)

CLARK COUNTY
WASHINGTON
proud part, promising future

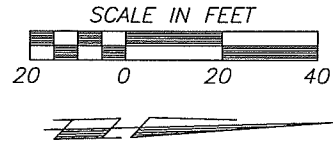
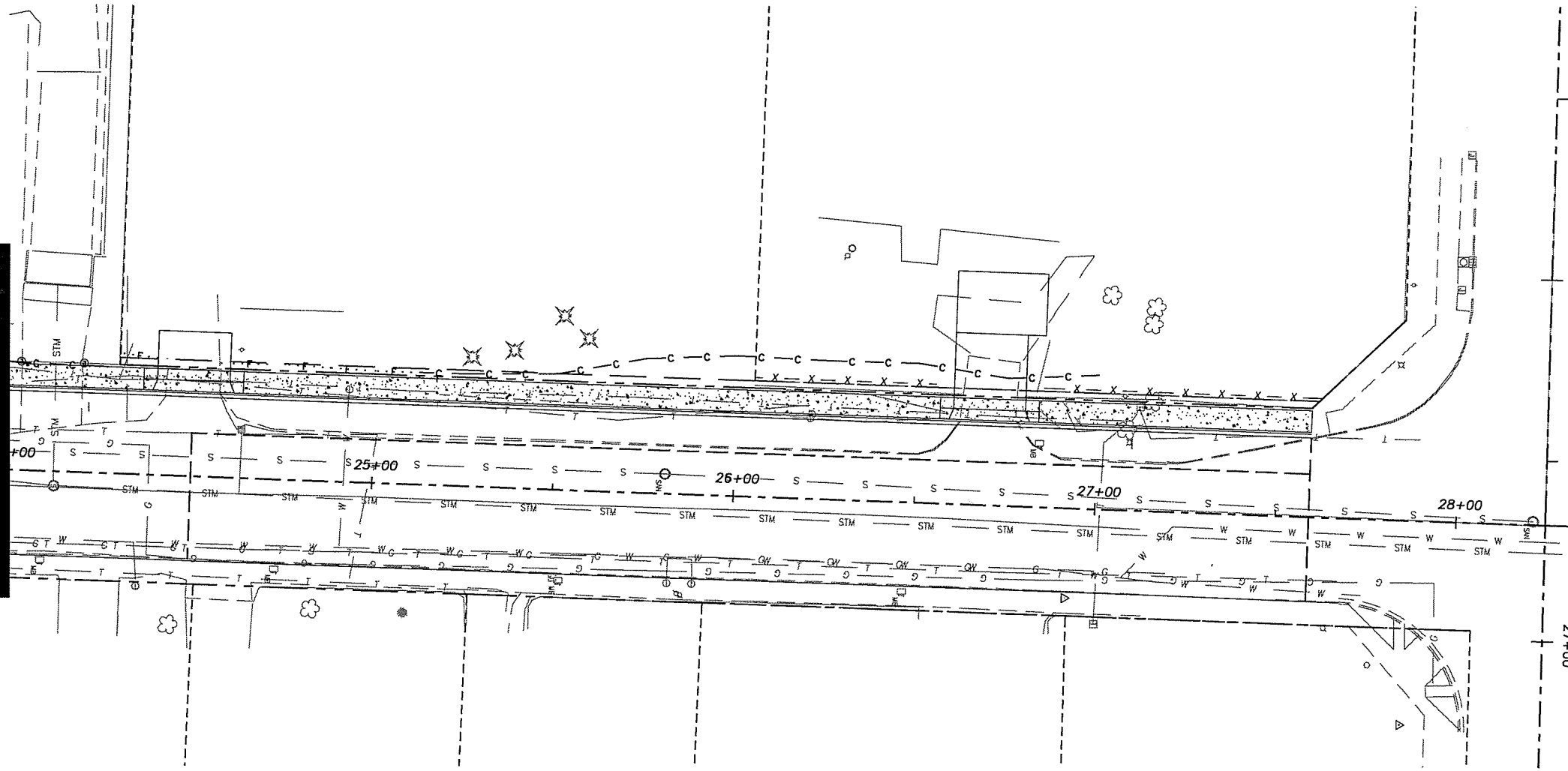


DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	1"=20'
VERT.	NA
DATE	09/28/04
DWG.	DP3
SHEET	20 OF 28

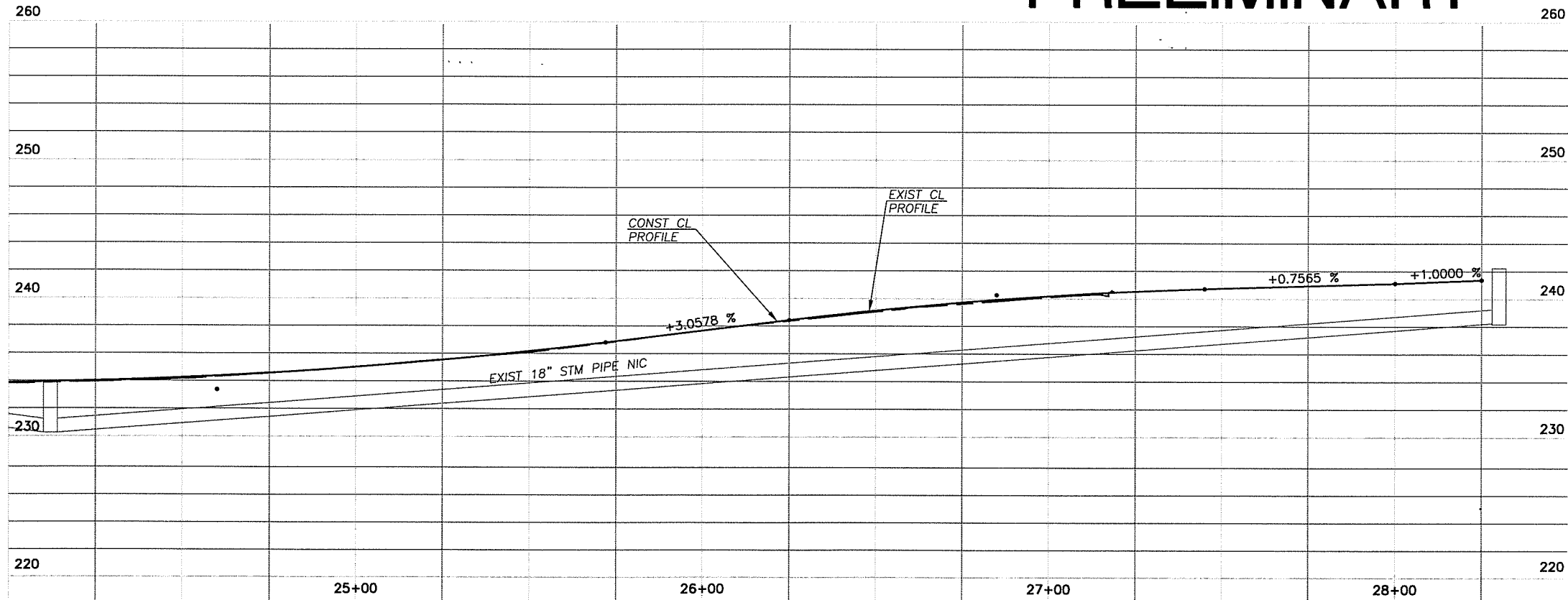
CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Low"
NORTHWEST PIPELINE NOTIFICATION CENTER
EXPRESS JANUARY 20, 2006

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\DWG\321122-137THDP4.dwg, 9/28/2004 10:48:59 AM, kcrllnr

MATCH LINE STA 24+00
SEE DWG DP3



PRELIMINARY



proud past, promising future

DESIGN & ENGINEERING DIVISION
DESIGN SECTION

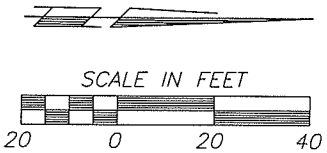
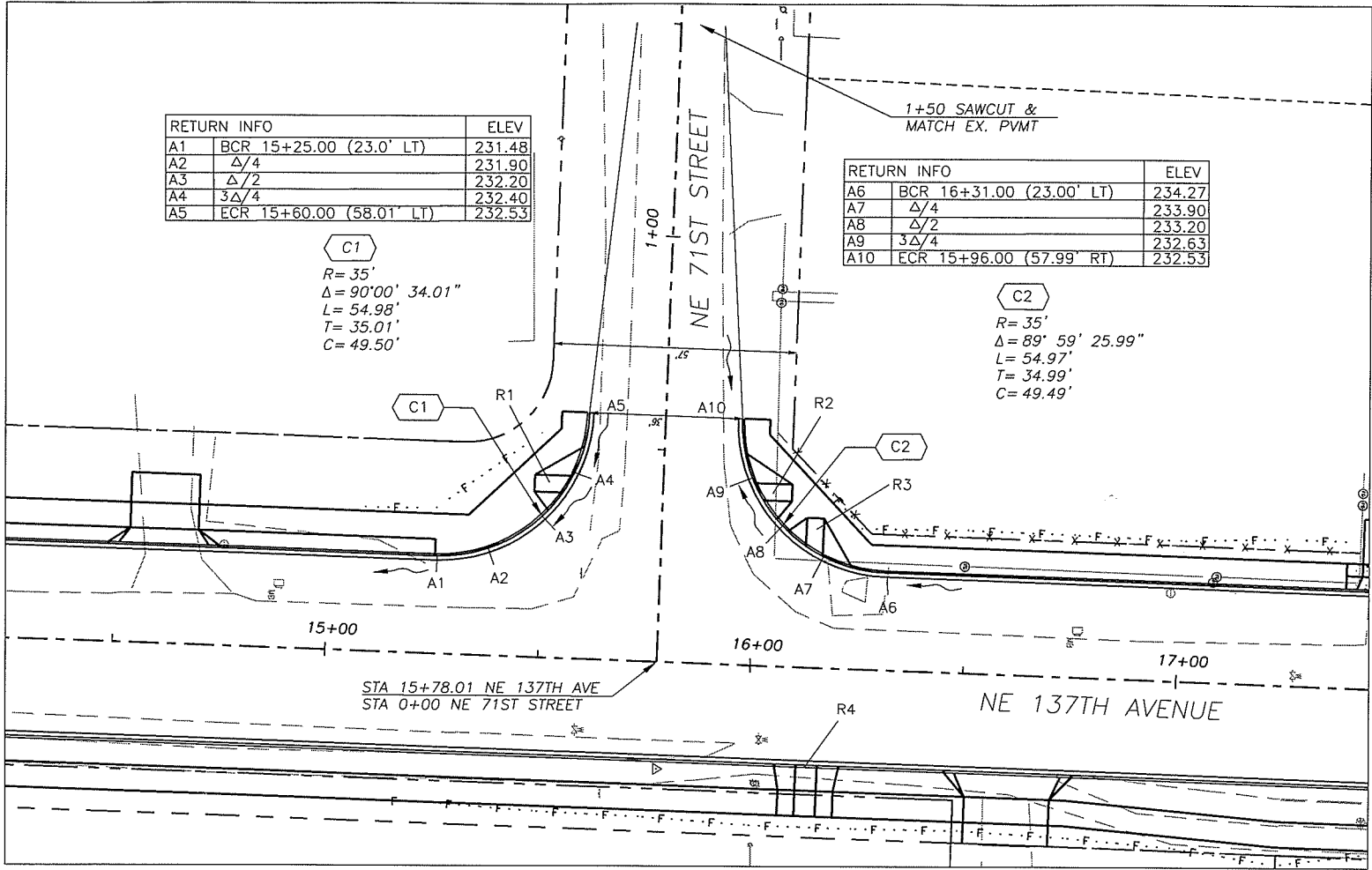
NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
DRAINAGE PLAN (STA 24+00 TO E.O.P.)



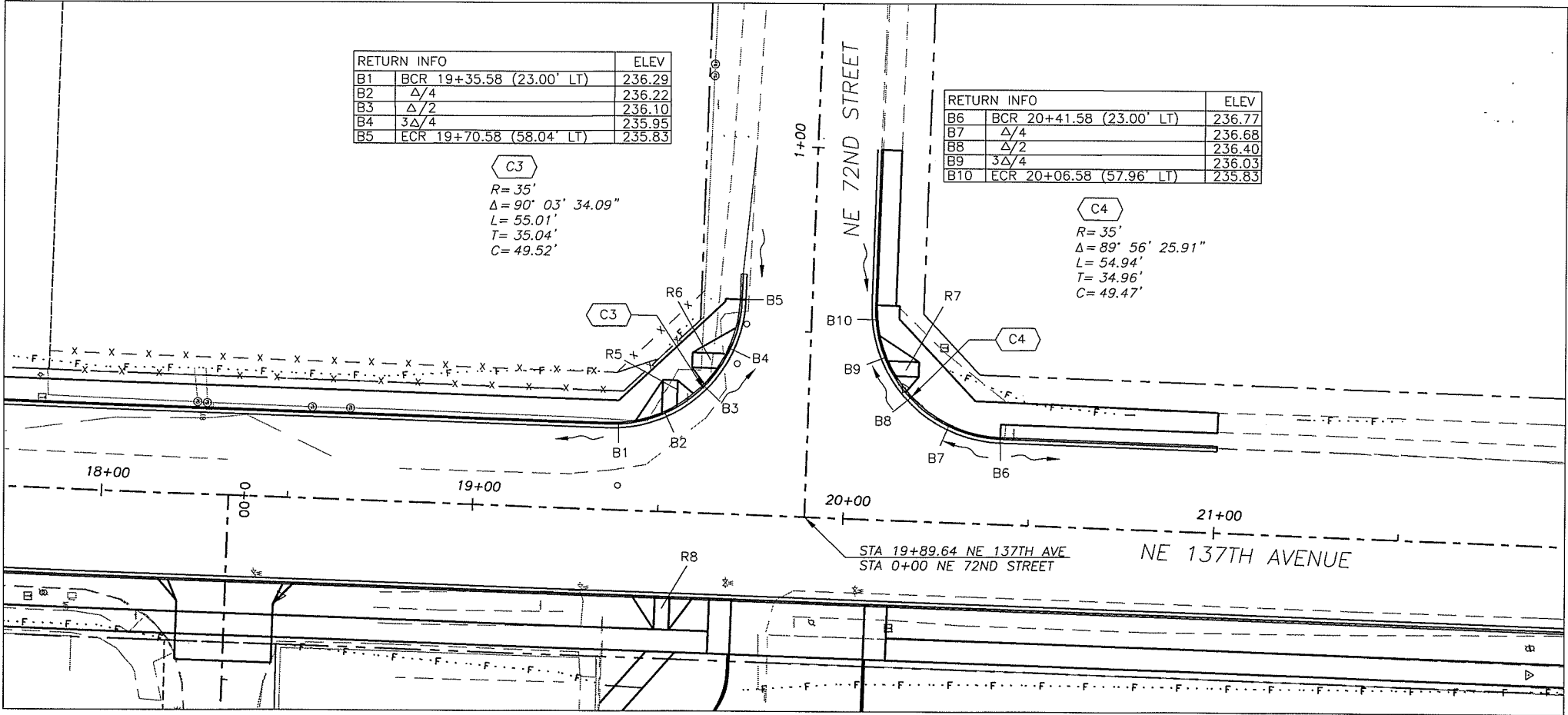
CALL 48 HOURS
BEFORE YOU DIG
1-800-
553-4344
"It's the Low"
NORTHWEST
UTILITIES
NOTIFICATION CENTER

DESIGNED	JRK
DRAWN	RK
CRP	321122
HOR.	1"=20'
VERT.	NA
DATE	09/28/04
DWG.	DP4
SHEET	21 OF 28

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Draws\137TH01.dwg, 9/28/2004 10:48:09 AM, kerlinr

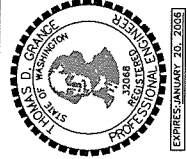


RAMP #	CL AT CURB FACE		CL AT END OF RAMP	
	STATION	OFFSET	STATION	OFFSET
R1	15+55.59	41.00' LT	15+47.71	41.00' LT
R2	16+00.41	41.00' LT	16+08.29	41.00' LT
R3	16+13.98	27.42' LT	16+13.98	35.31' LT
R4	16+13.98	23.00' RT	16+13.98	35.00' RT
R5	19+52.04	27.11' LT	19+52.04	35.53' LT
R6	19+66.28	41.19' LT	19+57.72	41.22' LT
R7	20+10.97	41.03' LT	20+18.87	41.00' LT
R8	19+52.04	23.00' RT	19+52.04	38.00' RT



DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
INTERSECTION PLAN



DESIGNED JRK
DRAWN RK
CRP 321122
HOR. 1"=20'
VERT. NA
DATE 09/28/04
DWG: IO1
SHEET 22 OF 28

CALL 48 HOURS
BEFORE YOU DIG
1-800-
553-4344
"It's the Law"
NORTHWEST
UTILITIES
NOTIFICATION CENTER

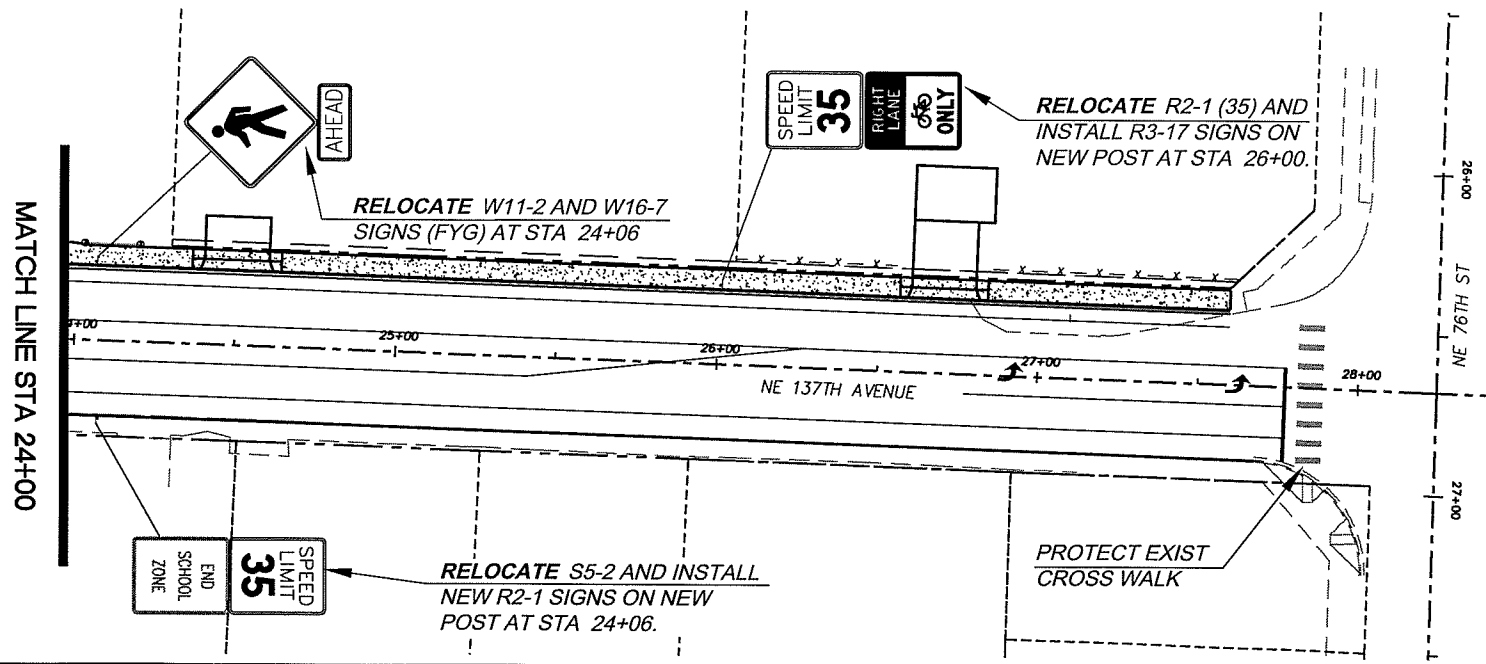
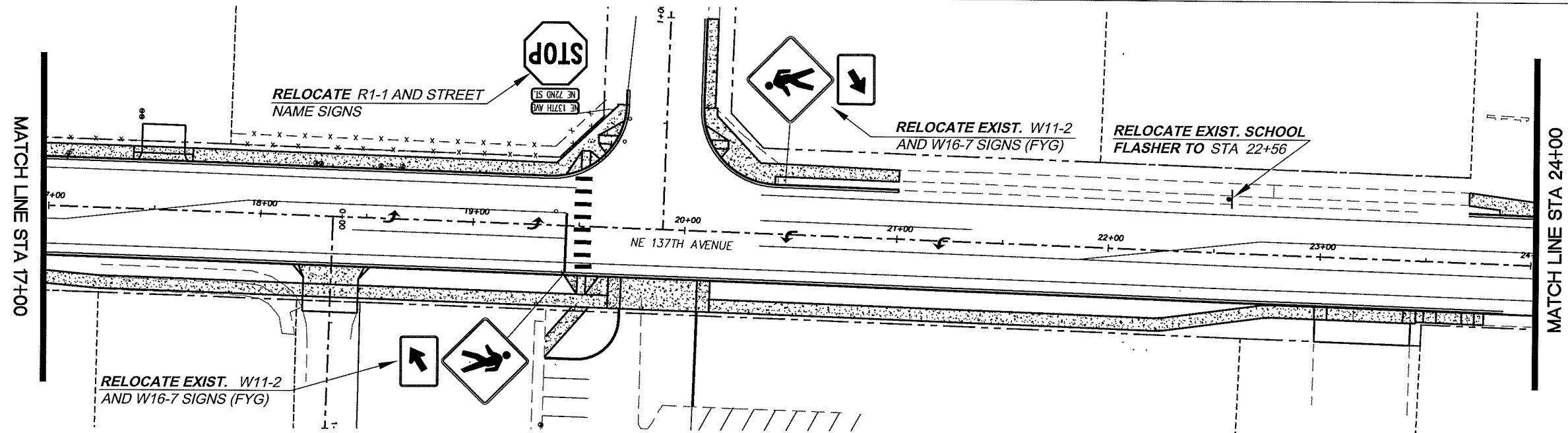
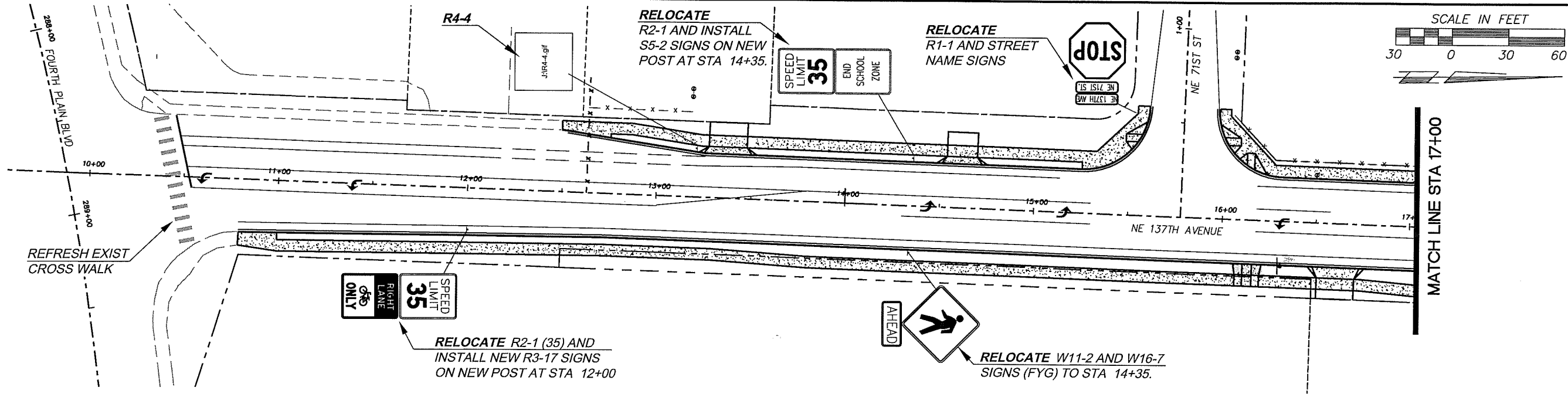
PRELIMINARY




proud past, promising future

CLARK COUNTY
WASHINGTON

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Drawings\137THSS1.dwg, 9/29/2004 8:14:18 AM, kerrlinr



PRELIMINARY

 CLARK COUNTY WASHINGTON	proud part, promising future	DESIGN & ENGINEERING DIVISION DESIGN SECTION		NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST) SIGNING & STRIPING	
		DESIGNED JRK DRAWN RK CRP 321122 HOR. 1"=40' VERT. NA DATE 09/28/04 DWG: SS1 SHEET 24 OF 28			

N.T.S



1. CITY TO SUPPLY METER SPACER, REDUCING TEE AND STRAINER. CONTACT CITY INSPECTOR 2 WEEKS PRIOR TO INSTALLATION
2. TEN PIPE DIAMETERS OF STRAIGHT PIPE REQ'D. IN & OUT OF METER. (IF USING 6" PIPE, NO BENDS ALLOWED WITHIN 5' OF THE METER IN EITHER DIRECTION. IE: 6" x 10 = 60")
3. CONTRACTOR SHALL USE APPROPRIATE METHODS TO ENSURE COPPER PIPE, FITTINGS AND JOINTS WILL REMAIN LEAK-TIGHT.
4. ALL METERS SHALL BE INSTALLED BY THE CITY OF VANCOUVER PER VMC 14.04.170(B).
CONTRACTOR TO INSTALL TEMP. SPACER AS PER NOTE 1.
5. METER BOX IS NOT ALLOWED IN WITHOUT PRIOR APPROVAL.

N.T.S.



1. ALL METERS SHALL BE INSTALLED BY THE CITY OF VANCOUVER
PER VMC 14.04.170(B) BE TAPPED DIRECTLY
1"-FORD-
MUELLER-
(OR APPROVED)
2. PRIOR TO CITY INSTALLATION OF METERS, ALL SERVICE APPLICATIONS
MUST BE COMPLETED AND APPROVED, SERVICE FEES PAID IN FULL
AND AS BUILTS SUBMITTED AND APPROVED.
3. CONTRACTOR SHALL CONTACT CITY CONSTRUCTION MANAGERS OFFICE (606-8050) 48 HRS.
PRIOR TO INSTALLING ANY WATER SERVICE CONNECTIONS.
4. METERS WILL NOT BE SET BY THE CITY PRIOR TO DISINFECTION OF THE MAIN AND SERVICE,
AND, PRIOR TO A SUCCESSFUL BACTERIOLOGICAL TEST.
5. WATER SERVICES SHALL BE PRESSURE TESTED ALONG WITH THE MAIN.
6. DURING THE PRESSURE TEST, THE MAIN SHALL BE OPEN TO INSPECTION AT ALL CORPORATIONS.
7. METER BOX IS NOT ALLOWED IN HARD SURFACE AREAS WITHOUT PRIOR APPROVAL

N.T.S.



1. ALL METERS SHALL BE INSTALLED BY THE CITY OF VANCOUVER PER VMC 14.04.170(B)
2. PRIOR TO CITY INSTALLATION OF METERS, ALL SERVICE APPLICATIONS MUST BE COMPLETED AND APPROVED. SERVICE FEES PAID IN FULL AND AS-BUILTS SUBMITTED AND APPROVED.
3. CONTRACTOR SHALL CONTACT CITY CONSTRUCTION MANAGER'S OFFICE (360)696-8050 48 HOURS PRIOR TO INSTALLING ANY WATER SERVICE CONNECTIONS.
4. METERS WILL NOT BE SET BY THE CITY PRIOR TO DISINFECTION OF THE MAIN AND SERVICE, AND PRIOR TO A SUCCESSFUL BACTERIOLOGICAL TEST.
5. WATER SERVICES SHALL BE PRESSURE TESTED ALONG WITH THE MAIN.
6. DURING THE PRESSURE TEST, THE MAIN SHALL BE OPEN FOR INSPECTION OF ALL CORPORATION STOPS.
7. USE 1-7/8" BIT FOR ALL 2" SADDLE TAPS AND 1-3/8" BIT FOR 1-1/2" SADDLE TAPS.
8. METER BOX IS NOT ALLOWED IN HARD SURFACED AREAS WITHOUT PRIOR APPROVAL.

N.T.S.



1. FIRE HYDRANT INSTALLATIONS SHALL BE APPROVED BY THE CITY INSPECTOR PRIOR TO BACKFILLING.
2. FIRE HYDRANT LOCATIONS SHALL BE AS SHOWN ON THE PLANS. FIRE HYDRANTS SHALL NOT BE SET UNTIL LOCATION AND DEPTH ARE APPROVED BY THE CITY.
3. FIRE HYDRANT STANDARD BURY IS 4' UNLESS OTHERWISE NOTED ON THE PLANS.
4. A 4"x4"x4" CONCRETE PAD SHALL BE CENTERED AROUND THE FIRE HYDRANT.
5. CONCRETE PAD SHALL BE PLACED FLUSH W/BACK OF CURB OR SIDEWALK. EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN THE CONCRETE PAD AND CURB/SIDEWALK.
6. IN LIEU OF CONCRETE THRUST BLOCK ALLOWABLE JOINT RESTRAINT SYSTEMS (SEE SHEET 2) MAY BE USED FOR INSTALLATIONS OF NOT MORE THAN 18' (1 PIPE LENGTH).
7. FIRE HYDRANTS SHALL BE FACTORY PAINTED WITH SAFETY YELLOW HIGH GLOSS EQUIPMENT ENAMEL.
8. FIRE HYDRANT MAINS SHALL BE 8" MIN., A 6" MAIN CAN BE USED FOR A DEAD-END RUN OF LESS THAN 50' TO A HYDRANT SUBJECT TO ADEQUATE FIRE FLOW.

N.T.S.




1. EXTENSIONS SHALL BE 6" ASTM D 3034 SDR 35 PVC PIPE (ONE PIECE).
2. U.S. FILTER/PACIFIC WATER WORKS NO. 910 OR EQUAL.
3. THERE SHALL BE 1/2" CLEARANCE UNDER THE PIN CAST INTO THE LID.

LEADS

REVISIONS

ENGINEERING SERVICES
WATER ENGINEERING
P.O. BOX 1995
VANCOUVER, WA 98668-1995
(360) 536-8723

CALL
2 BUSINESS DAYS
BEFORE YOU DIG
1-800-553-4344
"It's the Law"



CLARK COUNTY UTILITIES COORDINATING COUNCIL



**ENGINEERING SERVICES
WATER ENGINEERING**
**P.O. BOX 1995
VANCOUVER, WA 98668-1995**
(360) 696-8223
FAX: (360) 696-8460
www.cl.vancouver.wa.us

DATE	By	APPRV.	REVISIONS
1/83	RJH	TDM	REVISED SPECIFICATIONS AND DETAILS
10/94	PCJ	JNR	REVISED SPECIFICATIONS AND DETAILS
10/94	T7/SH	JNR	REVISED SPECIFICATIONS AND DETAILS
12/98	TLT	JNR	REVISED SPECIFICATIONS AND DETAILS
10/01	GH/TT	PGE	REVISED SPECIFICATIONS AND DETAILS

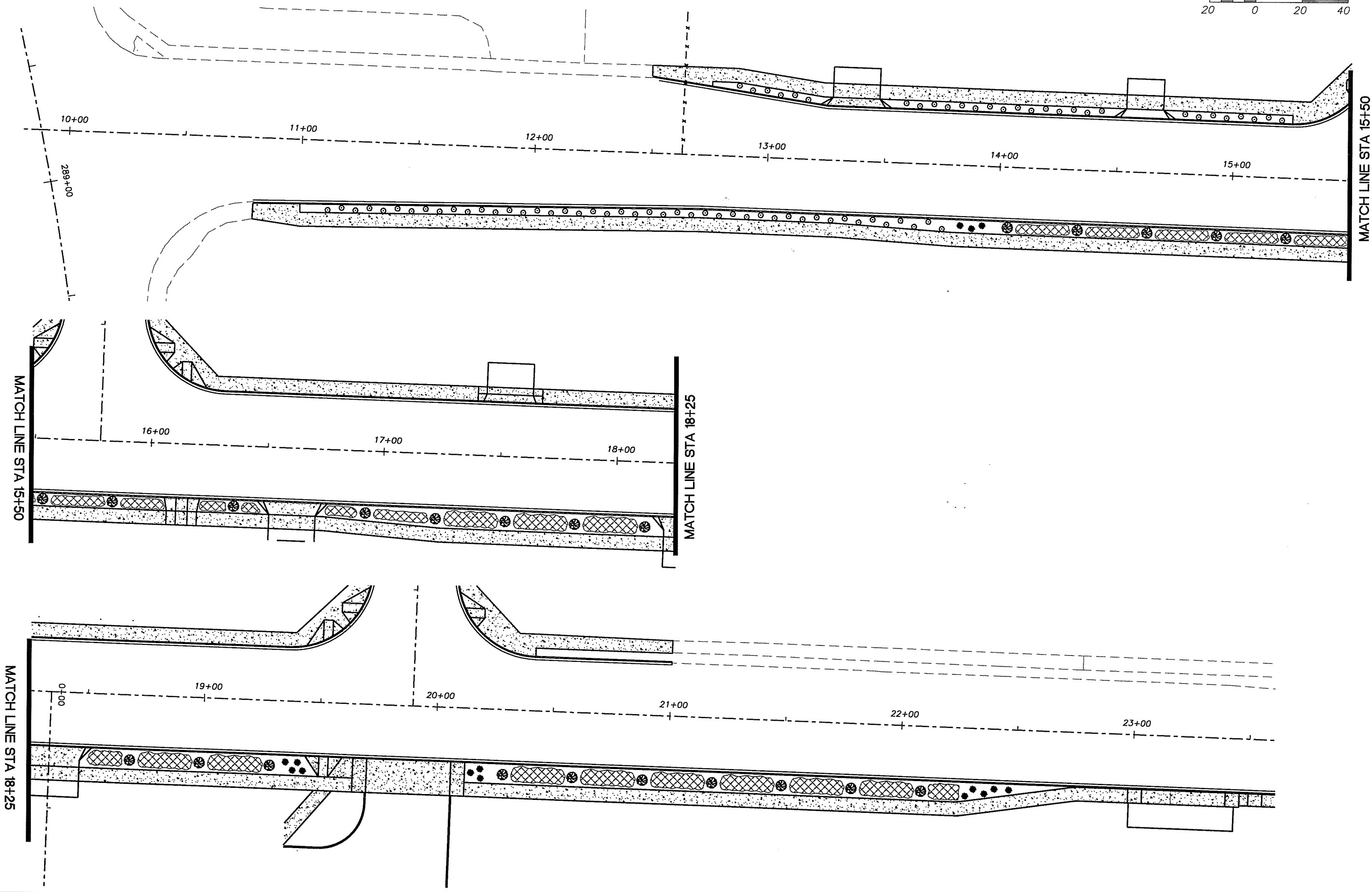
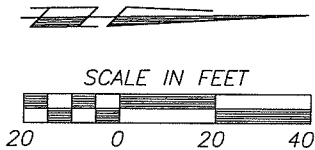
DATE Dec 27, 2001





CITY ENGINEER

SHEET OF

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\DWGS\137THLS1-2.dwg, 9/28/2004 10:49:50 AM, kerlinr

PRELIMINARY



 CLARK COUNTY WASHINGTON	proud past. promising future	DESIGN & ENGINEERING DIVISION				DESIGNED	TG
		DRAWN				RK	CALL 48 HOURS BEFORE YOU DIG
		CRP		321122			
		HOR.		1"=20'			
		VERT.		NA			
		DATE		09/28/04			
		DWG.		LS1			
		SHEET		27			OF 28

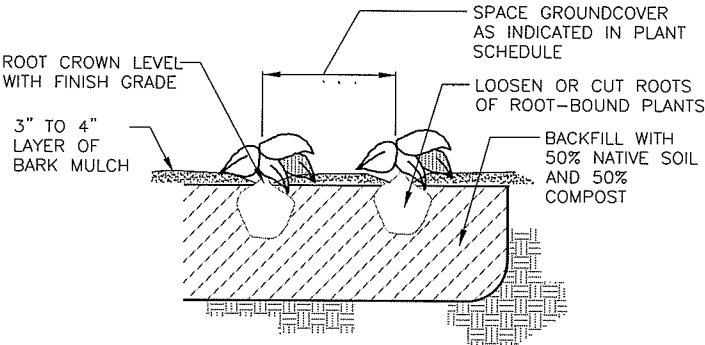
NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
LANDSCAPE PLAN

N:\CIP\PROJECTS\321122-137th Ave-Fourth Pln-76th\DESIGN\Drawings\137TH\LS1-2.dwg, 9/28/2004 10:50:29 AM, kettlinr

PRELIMINARY

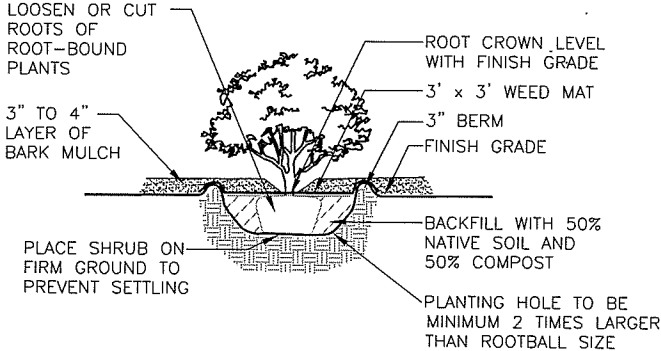
PLANTING NOTES

1. CONTRACTOR SHALL VERIFY ALL QUANTITIES, MEASUREMENTS, AND SITE CONDITIONS.
2. PLANTING PERIOD IS FROM APPROXIMATELY OCTOBER 15 TO APRIL 15, WEATHER DEPENDENT.
3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES.
4. INSTALLED PLANTS SHALL BE IMMEDIATELY WATERED IN BY CONTRACTOR.
5. ALL PLANT MATERIALS SHALL CONFORM IN SIZE AND GRADE TO THE "AMERICAN STANDARD FOR NURSERY STOCK", CURRENT EDITION.
6. PLANTS SHALL BE INSTALLED ACCORDING TO DETAILS SHOWN.
7. NO SUBSTITUTIONS IN PLANT VARIETIES SHALL BE MADE WITHOUT APPROVAL FROM THE COUNTY LANDSCAPE DESIGNER.
8. LANDSCAPE WORK SHALL BE REVIEWED AND APPROVED BY THE COUNTY ENGINEER. SOME FIELD ADJUSTMENT MAY BE NECESSARY TO REFLECT ACTUAL GRADING AND SITE CONDITIONS.
9. TREES AND SHRUBS SHALL HAVE 3' X 3' WEED MAT PLACED AROUND THEM AND SECURED WITH 8" STAPLES AFTER INSTALLATION.
10. FOLLOWING PLANT INSTALLATION AND PLACEMENT OF WEED MAT, 3" TO 4" OF BRIGHT MEDIUM RED BARK DUST, OR OTHER APPROVED EQUIVALENT, SHALL BE SPREAD THROUGHOUT PLANTING STRIPS.
11. FOLLOWING PLANTING, TREES SHALL BE STAKED ACCORDING TO DETAIL SHOWN.
12. FOLLOWING COMPLETION OF LANDSCAPE PROJECT, SITE SHALL BE MAINTAINED WEEKLY. MAINTENANCE SHALL INCLUDE: ADEQUATE WATERING OF ALL INSTALLED PLANTS TO ENSURE HEALTH AND SURVIVAL, REMOVING WEEDS FROM SITE, MOWING GRASS AS NEEDED, MONITOR TREE STAKES AND TIES TO ENSURE PROPER SUPPORT AND TO PREVENT TIES FROM GIRDLING TRUNKS. REMOVE TREE STAKES AND TIES AFTER ONE YEAR MINIMUM, OR AS NEEDED UNTIL ADEQUATE ANCHORING IS ATTAINED. BARKDUST SHALL BE REAPPLIED AS NEEDED.



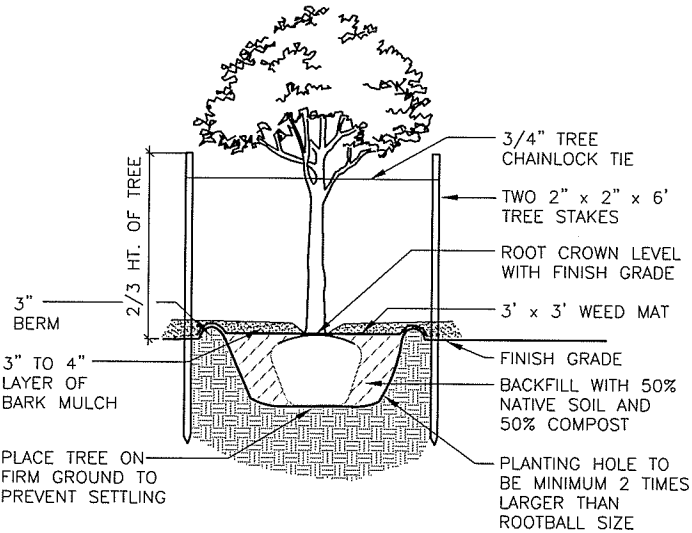
GROUNDCOVER PLANTING DETAIL

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE



TREE PLANTING DETAIL

NOT TO SCALE

PLANT SCHEDULE

Tree

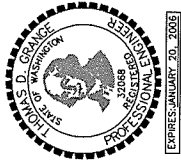
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Spacing
23		Acer platanoides 'Crimson Sentry'	Crimson Sentry Norway Maple	1 1/2" Cal.	30'

Shrub

Quantity	Symbol	Scientific Name	Common Name	Planting Size	Spacing
15		Viburnum Davidii	David Viburnum	2 Gal.	4'
74		Berberis thunbergii 'Crimson Pygmy'	'Crimson Pygmy' Barberry	3 Gal.	as shown

Groundcover

Quantity	Symbol	Scientific Name	Common Name	Planting Size	Spacing
226		Arctostaphylos uva-ursi 'Massachusetts'	'Massachusetts' Kinnikinnick	1 Gallon	2 1/2' oc



DESIGNED	TG
DRAWN	RK
CRP	321122
HOR.	1"=20'
VERT.	NA
DATE	09/28/04
DWG.	LS2
SHEET	28 OF 28

DESIGN & ENGINEERING DIVISION
DESIGN SECTION

NE 137TH AVE (NE FOURTH PLAIN TO NE 76TH ST)
LANDSCAPE DETAILS

